

Sequence Listing

<110> Rosen, et. al

<120> Human Secreted Proteins
<130> PS804

<140> Unassigned
<141> Date Herewith

<150> 60/278,650
<151> 2001-03-27

<150> 09/833,245
<151> 2001-04-12

<150> PCT/US01/11988
<151> 2001-04-12

<150> PCT/US00/06043
<151> 2000-03-09

<150> PCT/US00/06012
<151> 2000-03-09

<150> PCT/US00/06058
<151> 2000-03-09

<150> PCT/US00/06044
<151> 2000-03-09

<150> PCT/US00/06059
<151> 2000-03-09

<150> PCT/US00/06042
<151> 2000-03-09

<150> PCT/US00/06014
<151> 2000-03-09

<150> PCT/US00/06013
<151> 2000-03-09

<150> PCT/US00/06049
<151> 2000-03-09

<150> PCT/US00/06057
<151> 2000-03-09

<150> PCT/US00/06824
<151> 2000-03-16

<150> PCT/US00/06765
<151> 2000-03-16

<150> PCT/US00/06792
<151> 2000-03-16

<150> PCT/US00/06830
<151> 2000-03-16

<150> PCT/US00/06782
<151> 2000-03-16

<150> PCT/US00/06822
<151> 2000-03-16

<150> PCT/US00/06791
<151> 2000-03-16

<150> PCT/US00/06828
<151> 2000-03-16

<150> PCT/US00/06823
<151> 2000-03-16

<150> PCT/US00/06781
<151> 2000-03-16

<150> PCT/US00/07505
<151> 2000-03-22

<150> PCT/US00/07440
<151> 2000-03-22

<150> PCT/US00/07506
<151> 2000-03-22

0950032-091201
TOTAL: 280560

<150> PCT/US00/07507
<151> 2000-03-22

<150> PCT/US00/07535
<151> 2000-03-22

<150> PCT/US00/07525
<151> 2000-03-22

<150> PCT/US00/07534
<151> 2000-03-22

<150> PCT/US00/07483
<151> 2000-03-22

<150> PCT/US00/07526
<151> 2000-03-22

<150> PCT/US00/07527
<151> 2000-03-22

<150> PCT/US00/07661
<151> 2000-03-23

<150> PCT/US00/07579
<151> 2000-03-23

<150> PCT/US00/07723
<151> 2000-03-23

<150> PCT/US00/07724
<151> 2000-03-23

<150> PCT/US00/14929
<151> 2000-06-01

<150> PCT/US00/07722
<151> 2000-03-23

<150> PCT/US00/07578
<151> 2000-03-23

<150> PCT/US00/07726
<151> 2000-03-23

0950082-091201

0950082-091201
T02T60-28005660

<150> PCT/US00/07677
<151> 2000-03-23

<150> PCT/US00/07725
<151> 2000-03-23

<150> PCT/US00/09070
<151> 2000-04-06

<150> PCT/US00/08982
<151> 2000-04-06

<150> PCT/US00/08983
<151> 2000-04-06

<150> PCT/US00/09067
<151> 2000-04-06

<150> PCT/US00/09066
<151> 2000-04-06

<150> PCT/US00/09068
<151> 2000-04-06

<150> PCT/US00/08981
<151> 2000-04-06

<150> PCT/US00/08980
<151> 2000-04-06

<150> PCT/US00/09071
<151> 2000-04-06

<150> PCT/US00/09069
<151> 2000-04-06

<150> PCT/US00/15136
<151> 2000-06-01

<150> PCT/US00/14926
<151> 2000-06-01

<150> PCT/US00/14963
<151> 2000-06-01

<150> PCT/US00/15135

<151> 2000-06-01

<150> PCT/US00/14934

<151> 2000-06-01

<150> PCT/US00/14933

<151> 2000-06-01

<150> PCT/US00/15137

<151> 2000-06-01

<150> PCT/US00/14928

<151> 2000-06-01

<150> PCT/US00/14973

<151> 2000-06-01

<150> PCT/US00/14964

<151> 2000-06-01

<150> PCT/US00/26376

<151> 2000-09-26

<150> PCT/US00/26371

<151> 2000-09-26

<150> PCT/US00/26324

<151> 2000-09-26

<150> PCT/US00/26323

<151> 2000-09-26

<150> PCT/US00/26337

<151> 2000-09-26

<150> PCT/US01/13318

<151> 2001-04-27

<150> US 60/124,146

<151> 1999-03-12

<150> US 60/167,061

<151> 1999-11-23

<150> US 60/124,093

<151> 1999-03-12

095002-09101
T02T50-2800560

<150> US 60/166,989
<151> 1999-11-23

<150> US 60/124,145
<151> 1999-03-12

<150> US 60/168,654
<151> 1999-12-03

<150> US 60/124,099
<151> 1999-03-12

<150> US 60/168,661
<151> 1999-12-03

<150> US 60/124,096
<151> 1999-03-12

<150> US 60/168,622
<151> 1999-12-03

<150> US 60/124,143
<151> 1999-03-12

<150> US 60/168,663
<151> 1999-12-03

<150> US 60/124,095
<151> 1999-03-12

<150> US 60/138,598
<151> 1999-06-11

<150> US 60/168,665
<151> 1999-12-03

<150> US 60/125,360
<151> 1999-03-19

<150> US 60/138,626
<151> 1999-06-11

<150> US 60/168,662
<151> 1999-12-03

09950032 " 091201

<150> US 60/124,144
<151> 1999-03-12

<150> US 60/138,574
<151> 1999-06-11

<150> US 60/168,667
<151> 1999-12-03

<150> US 60/124,142
<151> 1999-03-12

<150> US 60/138,597
<151> 1999-06-11

<150> US 60/168,666
<151> 1999-12-03

<150> US 60/125,359
<151> 1999-03-19

<150> US 60/168,664
<151> 1999-12-03

<150> US 60/126,051
<151> 1999-03-23

<150> US 60/169,906
<151> 1999-12-10

<150> US 60/125,362
<151> 1999-03-19

<150> US 60/169,980
<151> 1999-12-10

<150> US 60/125,361
<151> 1999-03-19

<150> US 60/169,910
<151> 1999-12-10

<150> US 60/125,812
<151> 1999-03-23

0950032-091204

095008-09101
T.02T.60-23005660

<150> US 60/169,936
<151> 1999-12-10

<150> US 60/126,054
<151> 1999-03-23

<150> US 60/169,916
<151> 1999-12-10

<150> US 60/125,815
<151> 1999-03-23

<150> US 60/169,946
<151> 1999-12-10

<150> US 60/125,358
<151> 1999-03-19

<150> US 60/169,616
<151> 1999-12-08

<150> US 60/125,364
<151> 1999-03-19

<150> US 60/169,623
<151> 1999-12-08

<150> US 60/125,363
<151> 1999-03-19

<150> US 60/169,617
<151> 1999-12-08

<150> US 60/126,502
<151> 1999-03-26

<150> US 60/172,410
<151> 1999-12-17

<150> US 60/126,503
<151> 1999-03-26

<150> US 60/172,409
<151> 1999-12-17

<150> US 60/126,505

<151> 1999-03-26

<150> US 60/172,412

<151> 1999-12-17

<150> US 60/126,594

<151> 1999-03-26

<150> US 60/172,408

<151> 1999-12-17

<150> US 60/126,511

<151> 1999-03-26

<150> US 60/172,413

<151> 1999-12-17

<150> US 60/126,595

<151> 1999-03-26

<150> US 60/171,549

<151> 1999-12-22

<150> US 60/126,598

<151> 1999-03-26

<150> US 60/171,504

<151> 1999-12-22

<150> US 60/126,596

<151> 1999-03-26

<150> US 60/171,552 .

<151> 1999-12-22

<150> US 60/126,600

<151> 1999-03-26

<150> US 60/171,550

<151> 1999-12-22

<150> US 60/126,501

<151> 1999-03-26

<150> US 60/171,551

<151> 1999-12-22

09950032-091201

<150> US 60/126,504
<151> 1999-03-26

<150> US 60/174,847
<151> 2000-01-07

<150> US 60/126,509
<151> 1999-03-26

<150> US 60/174,853
<151> 2000-01-07

<150> US 60/126,506
<151> 1999-03-26

<150> US 60/174,852
<151> 2000-01-07

<150> US 60/242,710
<151> 2000-10-25

<150> US 60/126,510
<151> 1999-03-26

<150> US 60/174,850
<151> 2000-01-07

<150> US 60/138,573
<151> 1999-06-11

<150> US 60/174,851
<151> 2000-01-07

<150> US 60/126,508
<151> 1999-03-26

<150> US 60/174,871
<151> 2000-01-07

<150> US 60/126,507
<151> 1999-03-26

<150> US 60/174,872
<151> 2000-01-07

05950032 091201

<150> US 60/126,597
<151> 1999-03-26

<150> US 60/174,877
<151> 2000-01-07

<150> US 60/126,601
<151> 1999-03-26

<150> US 60/154,373
<151> 1999-09-17

<150> US 60/176,064
<151> 2000-01-14

<150> US 60/126,602
<151> 1999-03-26

<150> US 60/176,063
<151> 2000-01-14

<150> US 60/128,695
<151> 1999-04-09

<150> US 60/176,052
<151> 2000-01-14

<150> US 60/128,696
<151> 1999-04-09

<150> US 60/176,069
<151> 2000-01-14

<150> US 60/128,703
<151> 1999-04-09

<150> US 60/176,068
<151> 2000-01-14

<150> US 60/128,697
<151> 1999-04-09

<150> US 60/176,929
<151> 2000-01-20

<150> US 60/128,698

095008-09104
T02160-28005660

09650030-00000000

<151> 1999-04-09

<150> US 60/176,926

<151> 2000-01-20

<150> US 60/128,699

<151> 1999-04-09

<150> US 60/177,050

<151> 2000-01-20

<150> US 60/128,701

<151> 1999-04-09

<150> US 60/177,166

<151> 2000-01-20

<150> US 60/128,700

<151> 1999-04-09

<150> US 60/176,930

<151> 2000-01-20

<150> US 60/128,694

<151> 1999-04-09

<150> US 60/176,931

<151> 2000-01-20

<150> US 60/128,702

<151> 1999-04-09

<150> US 60/177,049

<151> 2000-01-20

<150> US 60/138,629

<151> 1999-06-11

<150> US 60/138,628

<151> 1999-06-11

<150> US 60/138,631

<151> 1999-06-11

<150> US 60/138,632

<151> 1999-06-11

<150> US 60/138,599
<151> 1999-06-11

<150> US 60/138,572
<151> 1999-06-11

<150> US 60/138,625
<151> 1999-06-11

<150> US 60/138,633
<151> 1999-06-11

<150> US 60/138,630
<151> 1999-06-11

<150> US 60/138,627
<151> 1999-06-11

<150> US 60/155,808
<151> 1999-09-27

<150> US 60/155,804
<151> 1999-09-27

<150> US 60/155,807
<151> 1999-09-27

<150> US 60/155,805
<151> 1999-09-27

<150> US 60/155,806
<151> 1999-09-27

<150> US 60/201,194
<151> 2000-05-02

<150> US 60/212,142
<151> 2000-06-16

<160> 2161

<170> PatentIn Ver. 2.0

<210> 1
<211> 733
<212> DNA

0950082-091201

<213> Homo sapiens

<400> 1

```

gggatccgga gcccaaatct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg      60
aattcgaggg tgcaccgtca gtcttctctt tccccccaaa acccaaggac accctcatga     120
tctcccgga ccttgagggt acatgcgtgg tgggtggacgt aagccacgaa gaccctgagg     180
tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg     240
aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact     300
ggctgaatgg caaggagtac aagtgcgaagg tctccaacaa agccctccca acccccatcg     360
agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc     420
catcccgga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct     480
atccaagcga catgcctgtg gagtgggaga gcaatgggca gccggagaac aactacaaga     540
ccacgcctcc cgtgctggac tccgacggct ccttcttctt ctacagcaag ctcaccgtgg     600
acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc     660
acaaccacta cagcgagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc     720
gactctagag gat                                     733

```

<210> 2

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (3)

<223> Xaa equals any of the twenty naturally occurring L-amino acids

<400> 2

```

Trp Ser Xaa Trp Ser
  1             5

```

<210> 3

<211> 86

<212> DNA

<213> Artificial Sequence

<220>

<221> Primer_Bind

<223> Synthetic sequence with 4 tandem copies of the GAS binding site found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)), 18 nucleotides complementary to the SV40 early promoter, and a Xho I restriction site.

<400> 3

```

gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc     60
cccgaaatat ctgccatctc aattag                                     86

```

<210> 4

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<221> Primer_Bind

<223> Synthetic sequence complementary to the SV40 promoter; includes a Hind III restriction site.

<400> 4

```

gcggcaagct ttttgcaaag cctaggc                                     27

```

<210> 5

<211> 271
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Protein_Bind
 <223> Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).

<400> 5
 ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60
 aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc 120
 gccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180
 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240
 ttttggaggc ctaggctttt gcaaaaagct t 271

<210> 6
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Xho I restriction site.

<400> 6
 gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 7
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Hind III restriction site.

<400> 7
 gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 8
 <211> 12
 <212> DNA
 <213> Homo sapiens

<400> 8
 ggggactttc cc 12

<210> 9
 <211> 73
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer with 4 tandem copies of the NF-KB binding site

(GGGGACTTTC), 18 nucleotides complementary to the 5' end of the SV40 early promoter sequence, and a XhoI restriction site.

<400> 9
gcggcctcga ggggactttc cgggggactt tccggggact ttccgggact ttccatcctg 60
ccatctcaat tag 73

<210> 10
<211> 256
<212> DNA
<213> Artificial Sequence

<220>
<221> Protein_Bind
<223> Synthetic promoter for use in biological assays; includes NF-KB binding sites.

<400> 10
ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct 60
caattagtca gcaaccatag tcccggccct aactccgccc atcccggccc taactccgcc 120
cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
ggcgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240
cttttgcaaa aagctt 256

<210> 11
<211> 605
<212> DNA
<213> Homo sapiens

<400> 11
ggcacgaggt tgggttgagc gagcatgtgg gtctgcagta cccggcacga ggcgaacccc 60
cgcccggcag tggcgggggc tgctcccagc ttctggctgt cacggacctg ccgcctcctc 120
ctactccgca tccgcccagc ctgcccgggt ccgggcgctt gtctatgggc accacgggga 180
tccagccaag gtcgtcgaac tcaagaacct ggagctagct gctgtgagag gatcagatgt 240
ccgtgtgaag atgctggcgg cccctatcaa tccatctgac ataaatatga tccaaggaaa 300
ctacggactc cttcctgaac tgctgtgtgt tggagggaac gaagggtgtg cacagggtgt 360
agcgggtggc agcaatgtga cggggtgaa gccaggagac tgggtgatc cagcaaatgc 420
tgggttagag tctcgtctgt ttgcccaggc tgggtgcaatc ttggctcact gcaacctgca 480
acctccacct cacaggagaa tggcgtgaac cccggaggca gagcttgagg tgggcccaga 540
ttgcgccact gcactccagc ctgggcgaca gagggagact ccgtctcaaa aaaaaaaaaa 600
aaaaa 605

<210> 12
<211> 2610
<212> DNA
<213> Homo sapiens

<400> 12
gcctgaagga ctgcctcgtt tcaacaacaa ctttatggct cccggaagtg cctcctcccc 60
gtccccttcc tttccagcct cagccccgtg ggctgcagtt ggaacgatgg cggcggcagc 120
tgccgcggg cctagcccgg ggtctggacc tggggactcc ccagaagggc ccgaggggga 180
gggtccggag cgtcggcgga aggcgcacgg gatgctgaag ctttactacg gcctctcgga 240
aggggaggcg gcgggacgcc ccgcggggcc gcaccccctg gacccgactg atctgaacgg 300
ggcgcacttc gacccggaag tttacctaga caagctgcgt agagagtgcc ctctggccca 360
gttgatggac agtgagacgg acatggtgcg gcagatccgg gctctagaca gcgacatgca 420
gaccctggtc tatgagaact acaacaagtt catctcagcc acagacacca tccggaagat 480
gaagaacgat ttccggaaga tggaggatga gatggaccgg ctggccacca acatggcagt 540
gatcaccgac ttcagcgctc gcactcagcg cagcgtgcag gaccgccacg agcgcatcac 600
caagctggca ggggtccacg cgctgctgcg gaagctgcag ttctcttttg agctgcctc 660
gcgcctcacc aagtgcgtgg aactgggcgc ctatgggcag gcggtgcgt accagggcgg 720
cgcgcaggcc gtgctgcagc agtaccacaa cctgcctcgt ttccgcgcca tccaggacga 780

ctgccagggtc	atcacggccc	gcctggccca	gcagctgcgg	cagcgcttta	gggagggcgg	840
ctcaggcgcc	ccggagcagg	cagagtgcgt	ggagctgctg	ctggccctgg	gcgagcctgc	900
ggaggagctg	tgcgaggagt	tctggcgcac	gcccgcggcc	ggctggagaa	ggagctgaga	960
aacctggagg	ccgagctggg	gccctcacct	ccggctcccc	acgtgttaga	gttcaccgac	1020
catggaggca	gtggcttcgt	ggggcgccctc	tgccagggtgg	cggcggccta	ccaggagctg	1080
tttgcgcccc	agggcccagc	aggtgccgag	aagctggcgg	ccttcgcccc	gcagctgggc	1140
arccgctatt	ttgcgctggt	ggagcggcgg	ctggcgcagg	agcagggtgg	tgggtgacaac	1200
tcactgctgg	tgcgggacct	ggaccgyttc	caccggcgct	tgcgggctcc	cggggccctg	1260
ctggccgctg	ccgggctcgc	agacgctgcc	acggagatcg	tggaacgagt	ggcccgcgag	1320
cgcctggggc	accacctgca	gggtctcccg	gcggccttcc	tgggctgcct	gacagacgtc	1380
cgccaggcgc	tggcagcacc	tcgcgtggct	gggaaggagg	gccctggcct	ggccgagttg	1440
ctggccaatg	tggccagctc	catcctgagc	cacattaagg	cctctctggc	agcagtgac	1500
cttttcaccg	ccaaagaggt	gtccttctcc	aacaagccct	acttccgggg	tgagttctgc	1560
agtcagggtg	tccgtgaggg	cctcatcgtg	ggcttcgtcc	actctatgtg	ccagacggct	1620
cagagcttct	gcgacagccc	tggggagaag	gggggtgcca	caccacctgc	cctgctcctg	1680
ctgctctccc	gcctctgcct	ggactacgag	acggccacca	tctcctacat	cctcactctc	1740
actgatgaac	agtttctggg	gcaggatcag	ttcccagtg	cggccgtgag	cacgctgtgt	1800
gcagaggcca	gggaaacggc	gcggcggtcg	ctgaccact	acgtgaaggt	gcagggcctg	1860
gtcatatcac	agatgctgcg	caagagcgtg	gagactcgcg	actggctcag	cactctggag	1920
ccccggaatg	tgcgggacct	catgaagcgg	gtggtggagg	ataccaccgc	catcgacgtg	1980
caggtggggc	tcctgtacga	agaggggtgt	cgcaaggccc	agagcagcga	ctccagcaag	2040
aggactttct	ccgtgtacag	cagctctcgg	cagcaggggc	gctacgcccc	cagctatacc	2100
cccagtgccc	cgatggacac	caacctcttg	agcaatatcc	agaagctatt	ctctgaacgt	2160
attgatgtgt	tcagccctgt	ggagttcaac	aaggtgtcgg	tgctgaccgg	catcatcaag	2220
atcagcctga	agacgtgctg	ggagtgtgtg	cggctgcgca	cctttggggc	cttcgggctg	2280
cagcagtgca	aagtggactg	ccactttctg	cagctctacc	tgtggcgttt	tgtggccgac	2340
gaagaactcg	tgcacttgct	gctggacgaa	gtggtggcct	ctgctgcctt	gcgctgcccc	2400
gaccctgtgc	ccatggagcc	cagtgtggtt	gaggtcatct	gcgagcgcg	ctaggcgcag	2460
ccgctgccat	gcaccggtct	gtccctgcac	cccatggcac	ccaggatctg	gtctcggttg	2520
tccttccccg	caggcaggtg	tcaggaccgg	cctaataaac	atgtgtggcc	tcctcaaaaa	2580
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa				2610

<210> 13

<211> 1493

<212> DNA

<213> Homo sapiens

<400> 13

ggcacgagtt	ttttttcata	taaaactatt	tattcataaa	tattttccaa	aatgaaaata	60
ggttttacca	aaaatgtccc	tcactgggga	gggggatcag	catgcggggg	aaggggggtg	120
gtagagggag	ggggcggtgt	cactggaggt	cccgtcctc	caggtagcgg	tactcaaagg	180
tgaagccttc	cttcttcgcg	tggccccact	tctcgtagtc	aaagtagatg	taggtgccct	240
gtcaaaactc	gtcagtgatg	gtccttggtc	cctcgtgcct	ctggaaccac	atcatgtact	300
tgggtgtgaa	tcgccatgac	tgcttcttta	gggccttggc	tgccagatac	tgtgccttag	360
tgccctccag	atagtagaag	atgaagaaga	gagtcctcgg	cgacaggcgc	tggtagaatt	420
ccacagtgtc	cgagtgtggg	ggtggcatct	ggtgggtgta	ggggggcgtc	ggacaggggt	480
tccgggggag	gtactgccga	atacgctcag	agtcagaggg	gtgaggcatg	tggtgccagg	540
cggcctcttc	catggcctgc	tgatagagct	gctccttggg	gaggggcaca	gggcccagtg	600
gacagacacc	cagcgacagc	ggtatgttca	cctctgacag	ctgcaggggc	ggctgggctg	660
aggccggagg	tgtgatgta	ctgctcagga	tgatgtctcg	ctcggtcagg	tgcagcgttg	720
gcacagggtc	ctcaatgcc	gagctgatgg	ctgcgcgttc	cgccatggac	ttcaaggagc	780
tcagaggctc	agggccttga	ttcttgggcg	gtgctgaact	gtggaggccc	attgagcagg	840
gcaccggctg	ccttggcatc	actgaagctg	ggcggtgggg	agctgggagg	attcacaggc	900
agtggcacca	ggaggctggg	tccccctgag	ttgttccctg	agcctggggc	cacgccccca	960
gcccccggtg	gggctgccgc	actgggttcc	ttcgaggtgc	tgggaggtgg	gttgtggggg	1020
ccggaagggg	ggcccaaggc	ctggctgctg	gcattgttgc	ccccactgct	gctcaaagcc	1080
acctctgccg	ggctgtctgc	cacaactgag	ctgtaactgg	tggcgccatt	ctgcttgcca	1140
gccccctcc	cggcactgct	gttactactg	ctgctgctcc	ctccgcctcc	gctgccgcgg	1200
gaggggtagg	tgggcggcac	agctggggac	tgagggtgct	ggttgctgtg	gacaggtctg	1260
gagccgtttt	ttgctggaga	ctggctgact	tcactgtctg	tggaaacgtc	cctcttctta	1320
tcactcttcag	agttttccgt	ggtacagttg	gctgggctgg	gcgggatggg	agagctggag	1380

gtgggttgagg	tgggctgtgct	gctgggactgg	ttgaagatct	catcctccat	gtggctgtgg	1440
ctggggggggg	aggtggcgac	cagcgccctgt	ggaatgtcct	cgagggggggg	ccc	1493

<210> 14
 <211> 1300
 <212> DNA
 <213> Homo sapiens

<400> 14						
ggcagcagag	caaacttgca	ggccctaata	gcaacaggag	gcgacatcaa	tgcagccatt	60
gaaaggctgc	tgggctccca	gccatcgtaa	tcacatttct	gtacctggaa	aaaaaatgta	120
tcttattttt	gataatggct	cttaaatctt	taaacacaca	cacaaaatcg	ttctttactt	180
tcattttgat	tcttttaaat	ctgtctagtt	gtaagtctaa	tatgatgcat	tttaagatgg	240
agtccctccc	tctactttcc	ctcactccct	ttctcctttg	cttatttttc	ctaccttccc	300
ttcctcttgt	ctccccactc	cctccctctt	tgtttccttc	cttccttatt	tccttttagtt	360
tccttcccta	gccgttttga	gtgggtggga	tcaatgtctg	ttcactcaaa	agtgttgcat	420
gcaaacactt	ctctttatcc	tgcatttatt	gtgatttttg	gaaacaggta	tcaaccttca	480
cagttgggtg	aacaagtgtt	gtcctacaga	tgtccaattt	atttgcattt	ttaaacatta	540
gcctatgata	gtaatttaaa	gtagaatgaa	gatattaaaa	acagaagcaa	attatttgaa	600
gctctcta	ttgtggtacg	atattgctta	ttgtgacttt	ggcatgtatt	tttgctagca	660
aaatgctgta	agattttatac	cattgatctt	ttttgctata	tttgatataca	gtacagtaag	720
cacaattggc	actgtacatc	taaaaatatt	acagtagaat	ctgagtgtaa	tatgtgtaac	780
caaaatgaga	aagaatacaa	gaaatgtttc	tggagctagt	tatgtctcac	aattttgtag	840
aatcttacag	catcttgtga	taaactttct	agtgaaaatg	ttggctaggc	aagttcagtt	900
aaaatatagt	agaaatgttt	atcctgggat	ctctaagtat	acatttaatt	gtacagaaaa	960
tttacagtgt	aacatttgtg	caacatttgc	agattgactg	tatatgacct	taatctttgt	1020
gcagcctgaa	ggatcagtgt	agtaatgcca	ggaaagtgtc	ttttacctaa	gacttccttc	1080
tcagcttctc	ccataaagag	accctaatat	gcattttgat	ttgtaattgg	aaatgtaact	1140
ttcactgaaa	gtgtcatgtg	atgtttgcat	tacttttaac	tgctatgtat	aaaggaaagt	1200
gtgtcttttg	acttcatcag	ttatttctct	tgtgcacaga	gaaaaatgca	ttaaaaatga	1260
ctaaaaaaaa	taaaaaatta	aaaaatgaaa	aaaaaaaaaa			1300

<210> 15
 <211> 888
 <212> DNA
 <213> Homo sapiens

<400> 15						
ggcagcagct	cccgtggcgt	gggagctaaa	gagaggctgg	tgaattaagg	aactttcagg	60
tttactttct	agtgtgtctt	ctctgttcca	aaccacagtt	gtgaatggga	gagttcacat	120
ccgcgactgg	cgagaggaga	cactgtggaa	gacaaagcaa	ccggaagcga	aacagagact	180
gctctctgaa	gcctgcaaaa	cccgcctctg	ctggttcttc	atgcatcacc	ctgatggctg	240
cgctctgtcc	acggactgct	gcccgtttgc	ccatgggcct	gcggactgcg	gccaccccg	300
accaccccg	ggaagaagat	ttcatgagct	gcacccctgc	cagccgaggc	ctggttgggg	360
aggccaaacc	aaggagagct	tccccagcag	tcgtcagtg	tgtggtctct	gctctggctg	420
tgtttccagc	cacctcctcc	cagctttctc	cacatctctc	cagtgatgaa	ccgtatttca	480
taaacatcac	acgccagaga	agccacagtt	actcggaagc	cccagctga	ctgcctggct	540
tgtttccag	gcagccgctt	gaaacgtg	cagcatcttc	atatcataaa	gattgtgcac	600
ggatccttac	aatgtctcct	gggggagagc	ggctgaggct	gccttgca	ggcccttccc	660
agggcgctgt	ccgacgcctg	ccccaccatg	tccacatctg	tgaagaggat	ggggctcctc	720
gagaagtaag	accgtatctg	ccagcgtttc	tcaccacact	ggagagcagc	tgctctggag	780
cagggatcca	ccagattggt	atttttaaaa	aagggtcag	gcttgctatg	ttgaggttgt	840
tttttagagtt	acagagaata	aaaacactca	taatttctct	aaaaaaa		888

<210> 16
 <211> 3239
 <212> DNA
 <213> Homo sapiens

<400> 16						
ggcagcagct	gtcttctgcc	tgcatgtccc	aggagcttgt	gaagctgctc	aacgagctct	60

095082 - 091201

ttgccccgtt	tgacaagctg	gcagctaaat	accaccagct	gcggattaag	atcctggggc	120
actgctacta	ctgcatctgc	ggcttgcccc	actaccggga	ggaccacgcc	gtctgtctca	180
tcctcatggg	gctggccatg	gtggaggcca	tctcgtatgt	gcgggagaag	accaagactg	240
gggtggacat	gcgtgtgggg	gtgcacacgg	gcaccgtgct	ggggggcgct	ctggggccaga	300
agcgttgcca	gtacgacgtg	tggctgactg	atgtcactgt	agccaacaag	atggaggccg	360
gcggcatccc	tgggcgcgtg	cacatctccc	agagcaccat	ggactgacct	aaagggagtt	420
tgatgtggag	ccaggcgatg	ggggcagccg	ctgtgattac	ctagaagaga	agggtattga	480
aacctacctc	atcattgcct	ccaagccaga	ggtgaagaaa	acagccaccc	agaatggcct	540
caatggctcg	gccctgcccc	atggagcacc	agcttcctca	aagtccagct	cccctgccct	600
cattgagacc	aaggagccca	acgggagtg	ccacagcagt	gggtccacgt	cggagaagcc	660
cgaggagcag	gatgcccagg	ccgacaaccc	ctcattcccc	aaccacacgc	ggaggctgcg	720
cctgcaggac	ctggctgacc	gagtgggtga	tgcctctgaa	gatgagcacg	agctcaacca	780
gctgctcaac	gaggccctgc	ttgagcgaga	gtccgccccaa	gtagtaaaga	agagaaacac	840
cttcctcttg	tccatgcggt	tcattggaccc	cgagatggaa	acccgctact	cgggtggagaa	900
ggagaagcag	agtggggctg	ccttcagctg	ctcctgcgtc	gtcctgtctt	gcacggccct	960
ggtcgagata	ctcatcgacc	cctggcta	gacaaactat	gtgaccttca	tgggtggggga	1020
gattctgctc	ctcatctga	ccatctgctc	cctggctgcc	atctttcccc	gggcctttcc	1080
taagaagctt	gtggccttct	caacttggat	tgaccggacc	cgctgggcca	ggaacacctg	1140
ggccatgctc	gccatcttca	tcctgggtgat	ggcaaatgtc	gtggacatgc	tcagctgtct	1200
ccagtactac	acgggaccca	gcaatgcaac	ggcagggatg	gaaacggagg	gcagctgcct	1260
ggagaacccc	aagtattaca	actatgtggc	cgtgctgtcc	ctcatcgcca	ccatcatgct	1320
ggtgcaggtc	agccacatgg	tgaagctcac	gctcatgctg	ctcgtcgag	gcgccgtggc	1380
caccatcaac	ctctatgcct	ggcgtcccgt	ctttgatgaa	tacgaccaca	agcgttttcg	1440
ggagcacgac	ttacctatgg	tggccttaga	gcagatgcaa	ggattcaacc	ctgggctcaa	1500
tggcactgac	aggctgcccc	tgggtgcctc	caagtactct	atgacggtga	tgggtgttct	1560
catgtgctc	agcttctact	acttctcccc	ccactgaacaa	aaactggcac	ggacactttt	1620
cttgtggaag	attgaggtcc	acgaccagaa	ggaacgtgtc	tatgagatgc	gacgtggaa	1680
cgaggccttg	gtcaccaaca	tgttgctga	gcacgtggca	cgccatttcc	tggggctcaa	1740
gaagagagat	gaggagctgt	atagccagac	gtatgatgag	attggagtca	tgtttgcctc	1800
cctgcccac	tttctgact	tctacacaga	ggagagcatc	aacaatgggtg	gtattgagtg	1860
tctgcgtttc	ctcaatgaaa	tcattctcaga	ttttgactct	ctcctggaca	atcccaagtt	1920
ccgggtgatc	accaagatca	aaaccattgg	cagcacgtat	atggcggcct	caggagtcac	1980
ccccgatgtc	aacaccaatg	gctttgccag	ctccaacaag	gaagacaagt	ccgagagaga	2040
gcgctggcag	cacctggctg	acctggccga	cttcgcgctg	gcatgaagg	atacgtcac	2100
caacatcaac	aaccagtcc	tcaataactt	catgctgcg	ataggcatga	acaaaggcgg	2160
ggttctggct	gggtcatcg	gagcccggaa	accacactac	gacatctggg	gcaatacagt	2220
caatgtagcc	agcaggatgg	agtccacggg	ggtcatgggc	aacattcagg	tggtagaaga	2280
aacccaagtc	atcctccgag	agtacggctt	ccgctttgtg	aggcgaggcc	ccatctttgt	2340
gaaggggaag	ggggagctgc	tgaccttctt	cttgaagggg	cgggataagc	tagccacctt	2400
ccccaatggc	ccctctgtca	cactgcccc	ccagggtggtg	gacaactcct	gaatggcctc	2460
gagcctgcaa	cagtccaaac	cgggaaggag	aattttat	ttgaaactga	aggaagtccc	2520
gaccttcttg	gattgaagtg	cacactcatg	gacttttaggt	ttagaaacct	cctcagcctt	2580
cattttcttg	tggatgtgtg	agctctgagg	gtggccctgc	tattcctgtg	tgtgcctgta	2640
gtgtccccag	ctagggggtc	ttaggcatag	ttaggacag	tccttccaga	gccctcgctc	2700
caatccctgc	cgctccttgc	cctgaggggc	cctgaccact	gtgagcagga	gggtggcaga	2760
gctgggacaa	agctgccttt	gccgctgggc	tttccgggac	tgtggaggga	gcacaggcgg	2820
ggaagctcca	cttcagacag	ggcttggtgg	ggcaggacat	ggctcccat	ttgaaggag	2880
gtctccatgt	ggtccgagtg	aggtagagacg	gccctcgtcc	tgggtgtcct	gatcatcttg	2940
aaaggttctt	ctggaactcc	tgtccccctta	gtcatgagaa	cagaaagtgc	aatatttctt	3000
ttcacctggc	aggggagggg	ggatttat	ctgaaagaaa	aatatataaa	cagatcttct	3060
acatttatat	ttttaatctt	ctgttaaata	cactttccga	tattgccttg	ccttttgagc	3120
tcttgctaca	gtcgctttg	ctactgcttt	aagagaat	acaggtattg	ataaagaaca	3180
agactgtttt	attaaaagct	ttattcaact	tgaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	3239

<210> 17

<211> 667

<212> DNA

<213> Homo sapiens

<400> 17

aattcccggg tcgaccacg cgtccgcgca gtccgaggca cgagtcgga ggcacgcaca 60

ggagtccac	agcactgcgt	gtgtcggcgg	gacgcaggca	cacgtgggtg	tgtgtgcatg	120
tgtgtttgtg	tgagggcagc	gtgtcctcca	gtgtgcatgg	tgtgtgggct	tgggccccat	180
ccctggcccg	agcatttcat	cctgtggggg	aggggtgctg	acctagtggg	aggagcccca	240
ctgtgatcca	tgagctgccc	tgcccacgcc	tcccctccct	gtagcaacac	ctctgggtgt	300
ttggagttaa	gcttttgttg	gtttgtcttc	cctatcccat	ctcctgtact	acacagttca	360
tggcaggggtg	gggaggggtg	gggttggttc	gggtgggtga	ggggcttttt	cctctgcgtg	420
cgatgttgtt	atctgacagt	tctcctgccc	tactggcctt	tctcctcgtc	ttcataattg	480
tacggtaaca	gcaataaaga	cactcatttc	agaccaggaa	aaaaaaaaaa	aaaaaaaaaa	540
aaaaaaaaaga	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	600
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	660
aaaaaaa						667

<210> 18

<211> 2318

<212> DNA

<213> Homo sapiens

<400> 18

ccacgcgtcc	gccccaaagt	ctgggggtgac	aggcgtgagt	cactgtgcct	ggccacttcc	60
tggttcttag	atgctgtctt	tttccctgtg	tcttcccata	gtaaaggggc	agacaagctc	120
ccctgggtgt	cttataaagg	cactgatgtc	actcacaagg	cttctatgcc	caataactaa	180
tcacctccca	aaagcctcct	aataaaaacca	ctttgggggt	taggatttca	acataggaat	240
tttggggagg	gacacgaaca	tttagtccct	aacagtgatg	tatttatttc	ccatgttgta	300
aaggattggg	catggcctat	tttttgtcac	atgtgttcct	tattacatgc	taatgatggg	360
aacctgtgtg	ttgatattac	tacatgatgt	tattgtcaca	tttactgagt	tttataatgc	420
tcagaattta	aaatgggtgat	taatatcttc	gcaggttaatt	catgaatatt	gtactttttt	480
tctgaaccct	tattcagaaa	aggggctctg	ccaagtggaa	aaaaattatt	tttcatcatt	540
aaattttgag	gtagtacttt	tgtgaatgta	tggttttaat	aagtaggact	atagacatac	600
agccccctt	tttttaacct	ttacagctgg	taggtatttt	cctatttttg	ttaatattgg	660
ctttgttgct	tgattatagc	acactgcttt	gccgtgttta	actttgaggg	tgtgttggtg	720
tgttgaaacag	aaactgacct	tttcagatat	ttcttctttg	gtgaagatca	gacagttgaa	780
gttgaagtat	tcttcccac	aaattatcct	gagggaggac	tacagagcca	gtttagttag	840
gattaaaaag	gaaaaaaaaa	ataggtgaac	ctttgtaaa	gccatcctgg	actctgccaa	900
ctgctttttc	ggggaatact	gtggtgggtc	gtggccttgt	cacaatcagg	gatattgggtg	960
aaaggcattc	cctgaactgg	gggcccagac	caggctgact	tttgagcagt	cctgccacca	1020
ctttgatatt	ttatcttctt	cctgtgccat	gactttttat	cattgtttat	ccagctccaa	1080
ccagggggag	acccactcga	aagggtcctc	cagaatgaat	ggagactttc	catgaggagt	1140
ccctgtcatg	acagtgacct	ggtgtgtgca	agctctcccc	acttactgat	ggctggaagg	1200
cagtagtgcc	tgcaggtttg	cccttgccga	acagtatgat	gtcagtgtga	atcgggacca	1260
ggcctcatcc	aggctttaat	cttttttttt	tttttttttt	tttttgagac	tgagcctggg	1320
tgacagagtg	agactccatc	tcaaaaaaaaa	aaaaaaaaaa	aaaaagtaaa	tagctttatt	1380
gagatagaaa	tcgagtcaca	cacttgtgta	tccatcacca	caatcaattt	cagaatattt	1440
tcagcacccc	aaggaagaaa	gccttttagcg	atcgcaatcc	ctccctattc	tctccttccc	1500
caaccccccg	caaccactac	tgtattggac	tctctgtctc	catgggttca	cctattccgg	1560
atatttcata	tgagtggaa	catacaacat	gtgttcattt	cttatccggc	ttcttttact	1620
gaggatgttt	tcaaggatca	tccatgttgc	agcacgtgtc	ggttcttttt	atggccaaat	1680
aatatttcat	tgtatggcta	gaccacattt	tcctgattga	tgcacagct	gatagacatt	1740
tgaactgggt	ccaccttttg	gctagtatga	agaatgctgc	tgtgaacagt	caggcacaca	1800
tttttgtgtg	gccatcgggt	ttcgccttatc	ttggttctat	aactagtgg	gaaattgctc	1860
agtcccatgg	gaattctgtt	tgttgagtgg	acaaggattc	cacttgtttc	taggatttgg	1920
agtgtgagga	aattggggaga	aaaggcacat	tgttaaaagg	tacataaatg	tgttctgtga	1980
aggagggcct	tgttgagcta	ggtcctaata	ataactgctt	tccattacta	ttttttcttt	2040
attttctttt	tagaagggaag	agattgttgt	gactctctta	ccagctgggtc	actgtccggg	2100
atcagttatg	taaggggggtc	atttattttt	tcattttatt	atatgtagac	acatatttga	2160
ttttagtaaaa	taaattttta	gggtctaaaa	ttaatagggg	gctgggtgca	gtggcacatg	2220
tctgtaatcc	cagtgccttg	ggaggctgac	gcgggaggat	tgcttgagct	tgggagttgg	2280
aggctgcagt	gagttttttt	ttaaaaaaaa	aaaaaaaaa			2318

<210> 19

<211> 330

<212> DNA

05950037-091201

<213> Homo sapiens

<400> 19

ggcaccgagcc	agcaccagcg	tcctagatgg	ccccagcacc	agctccacca	tccggaccag	60
aaatgctgcc	agagctggcg	ccagcttctt	ctcctggatc	cagcaccgtt	gacgaactgc	120
agcgatctta	ctggccaagc	cagagcgctt	cctctcagat	tccttctcga	cacagcacc	180
taggcggctt	cttcctgtca	gtcggagggtg	gcatgcaaga	tgaagctctc	tttgctcttc	240
ctgctttcat	tttgtgcttt	tccttgtgtt	ttcatgtttt	gggtatcagt	gttacattaa	300
agttgcaaaa	ttaaaaaaa	aaaaaaaaa				330

<210> 20

<211> 743

<212> DNA

<213> Homo sapiens

<400> 20

gattggtcag	atttgccttt	tttcagaatc	tgaagtcatt	ccgtactgta	tgtacacatt	60
tgtgtctggc	ttggctccag	ataaagtttt	tgggattcat	gaatgttggt	gcacgtatta	120
ggagagactc	ctttgtattg	ctgagtagta	ttccccctctg	tgggttagacc	atgattttatt	180
tatccatcta	cctgtttggtg	aacatttttg	ctgttttctaa	ttcttggcca	tcataaataa	240
aactgctgtg	aatgttccta	caataataat	tgtctaaaca	tatgttttta	tttcttttgt	300
gtcttagtcc	gtcgggctgc	tataactaag	aaccacagcc	tgggtgggctt	ataaacaaca	360
gaaattttatt	tttcatgggt	ctggaggctg	ggaagtccaa	gatcaagggtg	ccagtggatt	420
cagtgtctgt	tgaggggccca	tgtcttgatt	catagatggc	ggtcttcttg	ctgtgttctc	480
ctagacatgc	cagaaggggc	aagggagctc	ctctgggtct	cttttataag	ggcaccaatc	540
ccattcatgg	aggctctgcc	ctcatgacct	aatcacctcc	gaggaggccc	aaaggcccta	600
cctccaagta	ccatcatatg	agggattagg	tttcaaggta	tgaacctggg	gaggacataa	660
acagtcagtc	tagctttttg	ggtaaataag	ttgctgggct	taataataaa	tgtatattta	720
actgtaaaaa	aaaaaaaaa	aaa				743

<210> 21

<211> 1284

<212> DNA

<213> Homo sapiens

<400> 21

gagctggccc	tatctgtctc	cgctcttgc	acacacagct	actgggagga	tcattccaaa	60
acacaaatct	gagagagtct	tcctttgccc	tcaacataaa	gactagactc	cagccaggcc	120
taggaagccc	tgctcaagcc	agagtcacc	tacctgggcc	ctctctccta	tttcccattc	180
tgctactctg	cttaacacac	atggaattta	tgccaaaacta	cttgggtgctc	tcaaaacatg	240
ccatgggtgc	ttttgcctct	gtgtcttcac	atattgtgtg	tctctgcttg	aaatgctttt	300
ccccgccttg	ataacctggg	gaacttcag	tcattccttg	ctgatgcaga	cagatgggtg	360
agtgaactga	caccttcctc	tcctttgcta	ccttccatca	gagaggctgg	gaagcaaacc	420
ctctacttcc	ccagcctccc	ttgcagtggg	gggtgcccac	atgagagaca	ttgtctggca	480
ccagcccttc	cccactgctt	tctgtcttga	acccagatgt	gatgcctggg	gcagctgcag	540
ccatctcatg	accatgtcac	aacaaacacc	acaccaccca	agtgacaaga	tgaacagtgc	600
ctggatgcct	gatgacatgg	ttcagctgcc	aggccaaccc	caagcagcca	acctccggaa	660
ttctcatgag	ataattaaac	attgttaaga	ctgaagacac	tgtgaatcaa	attgcctgtc	720
acttgcaact	aaaagcactc	ctgattgaca	ctgggcctca	cctcaagcac	ccactactca	780
ctgaagtcc	tctggatccc	tgctcctagt	acaccttgca	caagcccatc	tcagcatttg	840
tcctgtttcac	tattattgat	ttgtctattg	tctccctccc	ccattatact	gagacctttt	900
agaggaaaaga	gactgagtct	ttccacttta	atcttttagta	cctagcccag	cccctagcac	960
acagcaagtc	tttagtaggt	agattttagt	aatatagggtc	tattttccag	ccttatattg	1020
taattttata	cttacagtat	ttttattaca	agctgcctcc	attccttatt	ttaaaaaggc	1080
caagagaaac	ctagatgtcc	atcaataatg	gactggataa	agaaaatgta	ttatggccgg	1140
gtacagtggg	tcacatctgt	aatactagca	ctttagggaag	ctgaggcagg	aggattgttt	1200
gagcgcagga	gttcaagaca	agcctgggca	gcacagtggg	accctatctc	tacccaaaaa	1260
aaaaaaaaa	aaaaaaaaa	aaaa				1284

<210> 22

<211> 5684

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (706)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (755)
<223> n equals a,t,g, or c

<400> 22

aatttttggga	ctgttgacct	tgctgtgaga	aaagagacaa	cgactgagca	agcactacca	60
ccagcactgt	tactgggaat	tagaagacct	gagtttctgt	ccagaccctc	agtgc aaact	120
gaggatgctc	catccaaagt	gaattatggt	acttgccatt	ttccaaaatg	ccttatcctt	180
taccatctct	gcacttttgt	tcatactctc	attctacttt	ggaactgctg	ctctgtggct	240
tttcatctgt	caaaactgcc	attttctcag	tatccaaactc	ttatgccctc	ttttccatga	300
gtctcctaac	tagccagaat	agagctttaa	agttttatga	catttcgtta	tgtatcctct	360
atctgtatac	aaaatcctgt	aaaatagtta	cttgccctgca	tttactgtct	ttgcagatag	420
cagactcctt	gaaagcaggg	tccttgttta	gtgcatcctt	gcccacatac	accacaactt	480
atcaagatgc	atttattagg	aaggaggagt	ttagagagca	ggctatcaga	ataaccactc	540
agtaagtgtt	ttcttaattg	ctatgtgata	acttacatta	ctcttaatga	ggagaaaagt	600
cgctagatat	ggatcatggt	tatgttttaa	tgttttttaa	ttctaaattt	kgatctaggg	660
agccctcaga	cataaggaga	aaccaatatg	ttgaakgatg	gggtantaca	tacagaagga	720
ccaagacctt	attttctccy	acttaagagg	aatcntgkya	agatgmmmgg	acagcttttt	780
aaaaggagaa	ggtcataaga	cagtttgagg	aaggcattgg	aagaggaaga	rgggcaatgt	840
ctcctttgkt	ttattgttgg	tatataaact	taaaatctca	gttcttttta	tggcacttgt	900
ggagccactt	cctctcctca	ccaaaaaatg	cccagtaccc	tgaatccgat	caaattactc	960
tcctaaagta	taaggcttag	tttctgtgtg	ctgcttcgcg	agacagttcc	cacaaatcga	1020
gagtgttaat	cagacttttg	tgttttcttt	tttggattgc	tgttgtttgt	tttcatttat	1080
catttgtctt	tgccctaagcc	aggetcatca	agaattaaca	gccatcaggc	tgccgatgtg	1140
ctgacagcag	acccacttag	agtcctgtgt	ttgtaatccc	atgcattkgt	tattttacct	1200
gttttgkccc	tgcccttctt	agtcctgtgc	ctcctgattg	ctgagtgttc	acctggacct	1260
tctgactacc	ttccctgtgc	tattccatca	gcctacagac	ctggtacctg	gatttttgcc	1320
cgagatgatt	cctaccacct	tactactgac	gaagacaccc	attccagtgg	accactgtga	1380
cccaggaggc	attcagccat	catgatgtgg	cctttacctc	cactcctgtc	ttgttctacc	1440
cagattccag	acagcccttt	atagtgaagt	cagagtcctc	aagccaaata	gctaaagctg	1500
ttttatcaca	acaaaggcct	agtttggtcc	atgagtgtgc	atttcatttc	ttcagttaaa	1560
gccttcagag	acacacaata	aatttggacc	aggggatttt	ttagttatta	atgctctctg	1620
aagaaaggca	acatcttttt	gagagcagca	ttggaccaca	ccccacaatc	tcaaattgatt	1680
gaaattcatg	aacatctagg	atcccatgaa	ggctactgga	ccctgttttt	tctacttcaa	1740
atcctgtagt	agcctactga	atgagaaaac	atattctgac	ccattgggat	caaatacaag	1800
gcacagtga	ctcctcatag	catcttcttt	ggaattactc	aggaaccaga	actttttaca	1860
caaattgaag	aaattctacc	aaggagtccc	cttacctaac	agcatctcac	aaggctgcac	1920
cagattccag	aaaaggcttc	tcttgataca	tcaaggtaga	accwctatgc	attttgtgac	1980
cgacttattc	ttagatcatt	ggttttccaa	aggctttgtg	gccatgaagc	cctttgagtg	2040
aaaactgtgc	agaagcccag	agtaaaaagt	aagctgctct	ggatgaagta	gtgaagcaag	2100
agtagggggc	tgaatcctgc	tacaactatc	ttcctttacc	accgtgggtg	cacctaaagg	2160
gacttcctta	caacaccttg	aactcttccg	aacacagttt	gaaaaccact	gccccagaca	2220
gcaatatggt	tgacctgaat	ggcattccaa	tcttttctgt	acctccactc	agcacagttc	2280
atgttcagta	gatgctgaac	attcttagaa	atactgtgtg	tgaacttaga	aaagtgaag	2340
aagacaggca	tgtctttgac	cccagggaat	atcatttgct	gaagatgggt	tcaagtgaac	2400
ctagattaac	agccctccac	tccagatgga	tatccagtga	ttcctagaat	gggatatagc	2460
cagagaacaa	ttctatgcac	cctacactga	cagactccct	taagcaacac	cagatgctct	2520
actggctact	gaagtacatg	actttgaagt	cttgaccctc	catgaatacc	tgaattatca	2580
gcaagcgggt	tttgaagctg	gtgcctcatt	gaggccatat	tagagcaact	tgtacatttg	2640
acctcttggt	atcagccatg	gtactctact	tcgtgtgcaa	gagataacta	tgaaagccaa	2700
attcaaatac	tggaacattt	tcctaaaggg	gctcaatatc	tatcattcgt	cttcttttcc	2760
aaactacaca	tcactgtatg	actcaaccag	tagcagttat	attgcccctt	ggtttttatt	2820

0950032-091201

0950022-091201

cagtttaact	actgttttcca	agataaatga	gctaataagc	tttaaaaaaa	aaaaaaaaaa	2880
aggctgaatt	cttttttctt	catcactggc	atatctgcct	attctccaga	attattatga	2940
ctattcagct	cactttaaca	gttgaacttc	aagcgacaat	ctttgaacac	cccttctcat	3000
gtgattttaa	atgaaacat	ttggaaaagt	ttcttctagc	cagtaataga	tttttttttt	3060
aattgctctg	ccttggtgcc	agagatgttc	ttttaagatg	aatcttttga	tgtctgatac	3120
caccaaatat	aggtggttag	gagagtttga	ggctggccct	ttgagcaggc	cattagctta	3180
cttgctgggc	atttccgata	gcttatttgc	tacctttttg	ctggaaacaa	actgatttga	3240
aaaacaaaat	ctatgaagac	tgcagctaag	gattttatcg	gtagacttaa	gagcttttgt	3300
ccttggtgat	atttttagtg	aaccacatca	gtctcaatac	tgtcatttta	cactgactca	3360
gagcagctga	cttcattcct	tgccatgata	tatatttaag	gcaggcattg	taacagacat	3420
aaagacaact	tatctgtttc	agcaggaagg	attcagttta	tgaactctca	gaccagatca	3480
tgttgaacaa	ggagactttg	atgtgtgtca	tgagaaaact	cattctttac	ttcccagtc	3540
atttaaaggc	cagctatcct	gagctactcg	aatgaatgca	ctggttaaac	attggaaata	3600
gtttgtttat	atccttgtct	ctctctaggc	caattgtgat	tacatgactc	gactctacat	3660
ctcgtcaaac	aaggcctagg	tctgggttgc	gtagactgct	cgccctcaac	aaataaaatc	3720
tgggtgacta	gcctccttgc	atatacaact	attattttgt	aagaagaaat	tatcgtcaat	3780
tttctactac	cttccaattg	tcagctcttt	ttttctctct	tggtttttcc	tatactttac	3840
agaaaaagac	attgatctat	actgccattc	cctctaatac	tgccatactc	agtcaaaagg	3900
aatgacttaa	gatgaagatg	atcatctgct	cgagtctaaa	atatacattg	tatataagaa	3960
ttggtgatta	gaaaagcaaa	aaacctaaaa	cttaaatcta	ggagtctgta	tactgtctcc	4020
atgtctccat	gcctcagatc	tcactctaat	ctttgaacag	caccattcaa	ccaatctgag	4080
gccttgactt	gcttgtaaga	tgattctcag	agatcggctg	agttaaaaaa	gatgacgact	4140
tgattaccaa	agaaagtagg	gccaactttg	acaaatctgg	ctctgctgac	cctgtcactc	4200
ccagatgtag	catagactcc	taaacagaa	ctcaagtctg	attgaggata	aggccttctc	4260
ctgagctgaa	agttcttttg	cagatgagca	agaaactgaa	agctgatgta	cctgactggc	4320
tctgtaagat	cagaaaactg	tatccagaat	aagccctatg	gattaacccc	tgagtaccca	4380
gagtaaaaac	taattttacg	aacttcctta	ttgatctgct	ggttcttcca	gatcatattc	4440
tggtctattg	tatggctggc	ctttctgaag	gtaccctgct	tgtctatttt	cctgactcag	4500
ctcttgcttg	cttttttcac	atgttgcctg	aattagactc	accgtgagga	ctacagtcaa	4560
tttcagtcta	tcttggtgcc	aatacaacaa	ggatttttaa	tagtaacaac	ccacacctca	4620
cccactagga	ctcaatgttc	acaacaggaa	ggaccattgc	tgcatactcc	ttgaccagca	4680
acttttttga	agatatTTTT	aagtgcagag	taggcctcta	ttcctgtatg	taattgttca	4740
ttttcagcac	ctggaacctc	atctatcggg	tctggaagga	atacagcagt	tcgaaagccg	4800
cgctccattt	tctccttcag	tagtgcagaa	atgagtccga	ttcaccagta	cacacagaac	4860
tgtaccagtt	caacctagca	aaagaagaaa	agtttccact	gtacttaaaa	tttacagctg	4920
actcaaattg	cctcacagaa	ttatttgatg	tagaaggcta	gttgtcttac	ttcagatcag	4980
caggacagtt	gggtctctcag	actcatgacc	actgagtttg	cttggtgtga	aactgtgggt	5040
tcacccaaca	tatgctattg	gacatgatta	ttattccatt	caaattggatt	acagacttct	5100
tgaggacagg	acaaacttat	ctctcatggg	gttttttttag	aatactttta	taaccaagga	5160
agaaacatg	ccagctgtta	ccattcaact	tcttaagcag	agattaagct	ttttcatatc	5220
tgttcttata	ctggacatca	gtagtTTTT	attgcccagc	atccgttcca	tcttgtaaca	5280
actccctgat	gtttctttaa	accacctctt	cctattttca	gtctgtgggt	tggaacagtct	5340
gacccaacct	tgagctttgt	gggtgaacat	gtaattcaga	cctcatcaat	cagcaaatcc	5400
atctgaactg	tggaggagaa	gctctcttta	ctgaggggtg	tttagctttg	taggatgaaa	5460
acctcaaaact	aacagggcct	accatgtaga	gaatgaagcc	agtgcagggg	aaagcagagc	5520
caaaatatgg	agagacttga	atcctgatga	cagcgtttgt	gcccctggat	ccaaccgtgc	5580
ctgaagctag	aatatccctt	ggacttttca	gttatgtgaa	ccaataaata	cccttttttg	5640
cttaaaaaaa	aaaaaaaaaa	aaaaawaaa	aaaaaaaaaa	aaaa		5684

<210> 23

<211> 785

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (22)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (44)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (774)
<223> n equals a,t,g, or c

<400> 23
caattgganc gcaaccggca anttaaattgg tggagttanc ccantcaatt aggcacccca 60
ggctttacac tttatgcttc ccggctcgta tgttggtgagg aattgtgagc ggataacaat 120
ttcaccacag gaaacagcta tgaccatgat tacgccaagc tcgaaattaa ccctcactaa 180
agggaacaaa agctggagct ccaccgcggt ggcggccgct ctagaactag tggatccccc 240
gggctgcagg aattcggcac gagtgtgagc taggtcttca agatttatag aatgttactt 300
atgaacaaaa tataattatt tatggtacaa ttcttgtact ttagcaaatc tggagttagt 360
tcatagtcaa agtcagttaa tatttcttag aggaaagttt tgctttttgt ggcaacattt 420
ttatagcttg tgtgagttct tttttattta atgatttgaa agcatttttg cacagtcgtg 480
accgtgtgtg gtggcgctcac tgtaaccaa gtatatgcac cagcccttgt gcattttattg 540
tttctcctga ttttgtggat ttaaattgtcc aaatgcaaac ctttgtgact tcctttggag 600
gacttggcag cacagcatgc ccccggtgacc tgcctgctgt ggtatgagct atgaccaaga 660
gcaggcttcc tgctccatgg agtcctgagt tgctctgggg caggggatta cgttatgaaa 720
actaaccatg tgtaacaata aatctacctt agcagaaaaa aaaaaaaaaa aaanaaaaac 780
tcgag 785

<210> 24
<211> 874
<212> DNA
<213> Homo sapiens

<400> 24
ggcacgagtt tattagatat attttacta agaaaagaaa gcagagtgag gttgaagctg 60
atctgggcta tccaggtgga aaggcgaaag tcatccataa ggaatctgat atgatcatgg 120
cattttctgt taataaggca aattgtaatg aaattgtttt ggcttcaaca catgatgttc 180
aagaacttga tgttacttct ctactggcct gtcagtcata catatggatc ggagaagaat 240
atgacagaga atccaaaagt tcagatgatg ttgattatcg tggttccact acaactcttt 300
atcaaccag tgcaacatcc tattcagcaa gtcagggtgca tccacettca tctctgccat 360
ggctgggcac tggacagact agcactggag ctagtgtgct tatgaaaagg aatctacata 420
atggtaagag aatgacttca caccagtc atcaatacta tcttacaggt gctcaggacg 480
gcagtgtacg tatgtttgaa tggacgcggt ctcagcaact tgtctgcttt cgtcaagctg 540
gcaatgcaag agttactaga ttatatattta attcacaagg caacaagtgt ggtgttgctg 600
atggagaggg ttttctgagt atctggcaag ttaaccaaac tgcatacaat cctaaacctt 660
atatgatttg gcagtgccac agtaaagcca caagtgactt tgcatttatt acctcttcaa 720
gtctagttgc cacatctgga cactccaatg acaatagaaa tgtttgcctc tgggacacat 780
taatatacc cggaaacagc ctcatctatg gtttcacgtg ccacgatcat ggtgccacgg 840
tactgcagta tgcacccaaa cagcaactcc taat 874

<210> 25
<211> 2440
<212> DNA
<213> Homo sapiens

09500560
TCT60-280560

<400> 25

tacggctg	agacgacaga	aggggccttc	tagcagaaat	ggcggctg	gcggtctgag	60
tgggtgtg	atccgcggcg	cgcggcggct	ctgggggttc	agcgagagtc	ttctaattccg	120
aggcgctg	ggacgggtcat	tatatatttg	agagaacaga	ttaagaagta	cacaggctgc	180
tacccaagt	gttctgaatg	ttcctgaaac	aagagtaaca	tgttttagaaa	gtggactcag	240
agtagcttc	gaagactctg	ggctctcaac	atgcacagtt	ggactctgga	ttgatgctgg	300
aagtagatac	gaaaatgaga	agaacaatgg	aacagcacac	tttctggagc	atatggcttt	360
caagggcacc	aagaagagat	cccagttaga	tctggaactt	gagattgaaa	atatgggtgc	420
tcatctcaat	gcctatacct	ccagagagca	gactgtatac	tatgccaaag	cattctctaa	480
agacttgcca	agagctgtag	aaattcttgc	tgatataata	caaaacagca	cattgggaga	540
agcagagatt	gaacgtgagc	gtggagtaat	ccttagagag	atgcaggaag	ttgaaaccaa	600
tttacaagaa	gttggttttg	attatcttca	tgccacagct	tatcaaaata	ctgcacttgg	660
acggacaatt	ttggggacca	ctgaaaatat	caaactctata	agtcgttaagg	acttagtgga	720
ttatataacc	acacattata	aggggccaag	aatagtgtct	gctgctgctg	gaggtgtttc	780
ccatgatgaa	ttgcttgact	tagcaaagtt	tcatttcggt	gactctttat	gcacacacaa	840
aggagaaata	ccagctctgc	ctccctgcaa	attcacagga	agtgagattc	gtgtgagggg	900
tgacaagatg	cctttggcgc	accttgcaat	agctgttgaa	gctgttggtt	gggcacatcc	960
agatacaatc	tgtctcatgg	ttgcaaacac	gctgattggc	aactgggatc	gctcttttgg	1020
gggaggaatg	aatttatcta	gcaagctggc	ccagctcact	tgtcatggca	atcttttgcca	1080
tagctttcag	tctttcaaca	cttctacac	agatacagga	ttatggggac	tgtatatggg	1140
tttgtaatca	tccactgttg	cagacatgct	acatgttggt	caaaaagaat	ggatgcgact	1200
ctgtacaagt	gtcacagaaa	gtgaggttgc	acgagccaga	aatcttctga	aaacaaacat	1260
gttggtgcag	cttgatgggt	caactccaat	ttgtgaagat	attggtaggc	aaatgttatg	1320
ctataataga	aggattccca	tccttgagct	tgaagcaaga	attgatgctg	tgaatgctga	1380
gmcaattcga	gaagtatgta	ccaaatacat	ttataatagg	agtccagcta	ttgctgctgt	1440
tggattcttt	cttcttagga	tataatcaca	gaagtgaact	tcattgaatgg	aaatggaaca	1500
agttattttc	caaaaggcaa	actatttcat	actcctacgt	gaacatcctt	ttaccacagc	1560
ctcagccaca	gtacgtctaa	ttatttataa	tttgtgatta	tcgctgggtg	tcaacaattt	1620
ttttgttttt	catcctttta	ctggaaaaag	gaggggctgt	ctcagttttt	cttctgactc	1680
tgtgtgtcac	ttacaattaa	taatgctagc	tgtaaacatc	tacatagcag	ttgacatgtg	1740
ccaggcctgt	ttaccagtta	atcttctcca	tgatcctatg	aggaaaagtgc	tattgctgtc	1800
tccatttcat	agatgaggaa	aatgaggcac	agaggagacg	ttatgtagcc	actaccactg	1860
caacttgctc	aaacttccgg	ccaagtccgc	tctagtccag	acagcctgac	tcctcagcct	1920
gcgtctgtat	gctgcctctc	ctaattcatt	atgtttatta	ataatttttc	cccgttttgt	1980
taacacttat	gtttcaaaaa	cagtcattct	tatttacatt	gactgatcat	ttcttttgta	2040
atttcttcta	gtacttacaa	tagttctagt	ttcattaaca	tttcttatag	actgaaaaaa	2100
ttttttaatc	tttttggaat	tttaatatag	tcaagaaagt	atctaaactt	ctcatttttc	2160
aaaatcttac	tgctatttaa	taatccttcc	cttttccact	gawwwgtgac	actataatag	2220
taaattttac	aagggcttgt	tttggttact	tattcttgcc	ctggggttat	ctttaaactg	2280
accacagytt	tctaatatat	ttgatcgtaa	cttccaaaaa	ctgtgttaatt	tttgcttatt	2340
tgtcttgcac	ctagtcactt	aactctcttt	tgcttttcta	ggcagatcct	atattatcta	2400
caaataatat	atttattttc	ttctttccaa	aaaaaaaaaa			2440

<210> 26

<211> 1346

<212> DNA

<213> Homo sapiens

<400> 26

ggcacgagca	gcgggacagt	cagacaggca	tggccaatcc	ctttagggat	cctttcatca	60
attccctcaa	acaccggttg	ctgggtatatt	tgtggcgccg	ggcagaacag	gatggtagtg	120
caatggccaa	gaggcgcttc	ttccagttatt	ttgacagctg	gcggcagctg	cgaatgtgga	180
aaatgcagct	tctggatgaa	aaccacctgt	ttatcaagta	cactagttag	gatgtagtaa	240
cactgcgagt	cacagatcca	tcacaggcat	ctttctttgt	ggtgtacaat	atgggtgacga	300
cagaggtgat	tgctgtgttt	gagaatacat	cagatgagct	tttgagagctc	tttgagaact	360
tctgtgacct	ttttcgtaat	gctaccctgc	acagtgaagt	tcagtttccc	tgctcagctt	420
ctagcaacaa	ttttgcaagg	cagatccagc	gccggttcaa	agacactatt	ataaatgcc	480
agtatggagg	gcacacagag	gcagtaacgc	ggctgctggg	tcagctcccc	atcagtgtc	540
agtcttacag	cggtaccctt	atctggattt	gtctctcttc	agttatgatg	acaagtgggt	600
atctgtcatg	gagcggccca	agacttgttg	agatcaccca	atcaggttct	atgcccgga	660
ctcgggcctg	ctcaagtttg	agatccaggc	ggggttattg	ggccggccca	tcaaccacac	720

agtgcgacgc	cttgttgcct	tcacctttca	cccttttgag	ccttttcgcta	tttctgtgca	780
gaggactaat	gctgagtatg	ttgtcaactt	ccatatgcga	cactgctgca	cgtaggtgcc	840
tcaccagagc	cagattatct	ggtctttcaa	gacttttgcca	ctcacttatc	tcagtggact	900
ccaaagcaaa	agctcccgac	tactagctct	gtagtttcca	gcctgctata	cctcagatgg	960
gagagagcca	gagagaggag	tgagggtggc	tcaaccta	ggaattttta	aattgtatac	1020
aatactgcta	ctgattgtta	taatatcctc	ttgcgttttc	cctgtgggaa	tgcccagcat	1080
taattaagtc	catttcattt	ttgctttact	ttgcatttga	ttgctgtgaa	gatgaaagca	1140
ttagactttt	atcccccttca	tgtcacttct	tcggcattat	ggtttgcata	tgaaagcagt	1200
taaatcttgt	ttactgatga	gaatgacata	catcctttcc	atttagctca	taagcacggc	1260
tatcttttta	agagaaaaat	aaagccatgg	tattttcata	cttaaaaaaa	aaaaaaaaaa	1320
aaaaaaaaaa	aaaaaaaaaa	aaaaaa				1346

<210> 27

<211> 1237

<212> DNA

<213> Homo sapiens

<400> 27

tcgacccacg	cgctccgggca	gccatggagt	ctctgggata	tttatgaaat	atgatctcag	60
ttctcttatg	gtgacagtta	ctgaggagca	catgccattc	tggcagtttt	ttgtaagact	120
ctgtgggtatt	gttggaggaa	tctttttcaac	aacagggttaa	caaccatttc	ctttttgtct	180
aattttctgaa	agtgttgcct	atacttaagt	tgtcttctct	caaaggggca	agaagtatac	240
agattttcat	gtttcgggtg	ttaatagctt	ttgctttaat	tacaaaactc	caaaattata	300
tggcataacc	agtaaacata	actaatttca	ttgtattcaa	tgatgtaagg	tagattatat	360
aatgggtgagt	tggaaagatc	ctgggtgtta	acatcagatt	gaagtagaat	tgaatgtaag	420
ttctgtcatt	tacttgggtg	tagcttggaa	tagatcacct	accttttctg	aggttttcta	480
atcagtaaaa	atagcaataa	taatacctaa	tttgcaagtg	tgctatagga	ttaaatatga	540
aaatgcctag	aaggcattta	agacattttt	aactgtacag	tatgtaaaat	catatgttat	600
agtactttga	attatgcaat	acatgaaact	agatttgtaa	tcagtaacat	gtttatgatt	660
tttgtcctga	gatcctggaa	ttcgctaaga	ttatttgctg	aattgtaatg	atgaaaattg	720
ggagttaagt	ccatagagaa	aaaggaaaca	atcctatttt	caccttcagt	ccttattcag	780
tattaatgga	gctgggggat	ttattatact	tagaatcata	tttttaaatg	aatgaatagc	840
tttcttcgaa	attcttgtta	gtgctcattt	catctattta	aatttgtgtg	gttgactcat	900
tattccaaat	gtttgggtgg	aactgaaaag	attgtgttta	ggcccgggtg	agtggctcat	960
gcctatatcc	caacactttg	ggaggccaag	gctggcggat	caacttgagg	ccagaagttc	1020
cagatcagcc	tggccaacat	ggctaaaccc	cgtctctact	aaaaatacaa	aaattacccg	1080
gttatgggtg	gcgcattttg	actgttagct	actcgggagg	ctgaggttgg	ggaatcgctt	1140
gaacctggga	ggtagagatt	gcagtgagcc	aagatcatgc	cactgtactc	cagcctgggc	1200
aacagggtga	gactctgtct	caaaaaaaaa	aaaaaaa			1237

<210> 28

<211> 2345

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1088)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1909)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1913)

<223> n equals a,t,g, or c

<400> 28

09505660 "0121"

ggaactcctc	gatgaggacc	atctacagtg	cttttttttt	tctatctctc	tgtctctcag	60
ttctgctttc	ttctacagta	tttgatgact	ggcatcccat	ttctataagc	tgggtccaga	120
actttgggct	cacaccttcc	tttgacgtgc	aagtgccaca	gaccctgaga	tgtttcttca	180
gatcaggggtg	ccgctggcat	ccactgaact	tgcttcagtt	taagctgagc	accttcctga	240
gaatcatttc	attttatctt	tcattctgta	gtgagaagag	gcttcagcat	gaatagtcta	300
gggacatgca	agatgtataa	aatagaatgg	agttgtgaat	taggktatat	gagggrgaaa	360
tttataaaaa	atataaagca	ttgtaaagac	aatgcatgt	tacacaaaac	caggrgacca	420
cttcatttta	agaggtacct	gctgggtctca	gaagctttaa	gtgatttata	atctagtcaa	480
caataagtgg	cagatgaact	gaaaatatat	ttgcatgaag	ttcttagttc	agaggtaaag	540
ctagggatgc	tatgcatggc	aacactggaa	gggaaagagc	ttttgawatc	caggtctggg	600
catttgcyct	aatcagaggt	caacatcttc	tctgccctca	taacccamtc	cccgccaggg	660
gtcctgtctc	ctagaccaca	cattagcaga	tataatayck	gkcawtctgg	kttctcattc	720
tctttccaga	aaaatccaga	catgatttta	ttgcaagatg	gagagaaaag	gagacagcat	780
cacatgtctt	atattagtca	caaaaactgg	atgggtttta	tttcaggcgc	taattctttt	840
gagaacacaa	gggaaacttt	gatcttaatc	tatttgatgt	ggttttaagt	aaaggagcat	900
cttggtctta	ctttgaaagt	gtttttttac	ttcgggcttg	gtcaaatatt	acattttggt	960
ccagagaaaa	actcatttgg	aaggcagcat	ggagtataga	attagacatc	cctgggcttg	1020
aagcccatct	cagccatgaa	ctacctttat	gactttcagc	tagttacttt	tcctcactca	1080
gcttcagntt	cttcattttat	aaagyaagtg	cctcaacatc	gctttttgac	tttcttaatc	1140
ttgtctacgc	atctacaagt	agccctttta	ttactgattt	ttactactc	ctggccattg	1200
gaatgaccga	gaagcccatg	tctcattctc	agacggggga	ttttgattct	aatgacagtc	1260
atgggttgaga	gtccactgtg	ttaaagtctc	ttcatttgaa	gcactctgatg	tgaattctat	1320
tttctgctta	aacccagac	atagatgtta	agtttcaaaa	ttatgtcgta	cattcactcc	1380
cactacatac	tcattgaatg	cttaccatgt	acagactctg	tgatagacta	tggaaataca	1440
tagaaagaaa	ttccctgttt	ttaagaactt	tacctagtgt	ttagaaattg	catttaaaac	1500
tgataattaa	aatactatag	accttggctt	aaaggatgca	ccttgtaatc	tgtaatcata	1560
ttttagtcta	tatatgtctt	tgaaaataca	ctgtagacag	taagacaaaa	aaggaaataa	1620
aaagtacatg	aattgccaag	gagaaaataa	aattggcttt	ggtcacagat	gacatgattg	1680
gctatgtaga	aaatcccag	gaactgacaa	aacaaacaaa	caaacaaatc	tagaactaat	1740
tagttctaga	ttatagcaag	gktgcaggat	caagcttaat	acctgaaagw	aaattccttt	1800
cctatatacc	agccmtgaac	cattggaatt	tgaaatcaaa	atacmacacc	attaatawta	1860
ttaccaaaag	agagagaggg	agamaatatg	tattatgcta	acaaaagang	tanaaaaggt	1920
atgtgagaaa	aactacaaat	ctctgatgaa	ataaatcaaa	ggagatctaa	attaatggaa	1980
agacaaacta	tgctaagtga	taagaaaact	caatcttggt	atgtgtcagt	tcattccaat	2040
ttgatccata	gattcaatgc	aatcctagaa	agctactttg	tggacatctg	caaactgatt	2100
ctaagggttta	cacgaaaagg	caaaaagatg	caatagtcga	aacaatattg	aagaagaaca	2160
aagaagtcgg	actcttcttg	acttcaagtc	tttctataaa	gctacaataa	tcaaaatagt	2220
gtggcattgg	tgaaagaata	gatagatcaa	aaccaattca	atggagaaaag	ggaaaagaca	2280
gtctttttta	caaatggtgc	tggaactgga	gttccttatg	aaaaaaaaaa	aaaaagggcg	2340
gccgc						2345

<210> 29

<211> 2536

<212> DNA

<213> Homo sapiens

<400> 29

ccacgcgtcc	gcacgtatca	agataaagag	gaagttgtct	tatggatgaa	tactgttggg	60
ccttaccata	atcgtcaaga	aacatataag	tacttttcac	ttccattctg	tgtgggggtca	120
aaaaaaaaagt	atcagtcatt	accatgaaac	tctgggagaa	gcacttcaag	gggttgaatt	180
ggaatttagt	ggtctggata	ttaaatttaa	agatgatgtg	atgccagcca	cttactgtga	240
aattgattta	gataaagaaa	agagagatgc	atttgtatat	gccataaaaa	atcattactg	300
gtaccagatg	tacatagatg	atttaccaat	atgggggtatt	gttgggtgagg	ctgatgaaaa	360
tggagaagat	tactatcttt	ggacctataa	aaaacttgaa	ataggtttta	atggaaatcg	420
aattgttgat	gttaatctaa	ctagtgaagg	aaagggtgaaa	ctggttccaa	atactaaaat	480
ccagatgtca	tattcagtaa	aatggaaaaa	gtcagatgtg	aaatttgaag	atcgatttga	540
caaatatctt	gatccgtcct	tttttcaaca	tcggattcat	tggttttcaa	ttttcaactc	600
cttcatgatg	gtgatcttct	tggtgggctt	agtttcaatg	attttaatga	gaacattaag	660
aaaagattat	gctcgggtaca	gtaaagagga	agaaatggat	gatatggata	gagacctagg	720
agatgaatat	ggatggaaac	aggtgcattg	agatgtattt	agaccatcaa	gtcaccact	780
gatattttcc	tctctgattg	gttctggatg	tcagatatatt	gctgtgtctc	tcatcgttat	840

tattgtttgca atgatagaag atttatatac tgagagggga tcaatgctca gtacagccat 900
 atttgtctat gctgctacgt ctccagtga tgggtatttt ggaggaagtc tgtatgctag 960
 acaaggagga aggagatgga taaagcagat gtttattggg gcattcctta tcccagctat 1020
 ggtgtgtggc actgccttct tcatcaattt catagccatt tattaccatg cttcaagagc 1080
 cattcctttt ggaacaatgg tggccgtttg ttgcatctgt ttttttgta ttcttctct 1140
 aaatcttgtt ggtacaatac ttggccgaaa tctgtcaggt cagcccaact ttcttctctg 1200
 tgtcaatgct gtgcctcgtc ctataccgga gaaaaaatgg ttcatggagc ctgcggttat 1260
 tgtttgcctg ggtggaattt taccttttgg ttcaatcttt attgaaatgt atttcatctt 1320
 cacgtctttc tgggcatata agatctatta tgtctatggc ttcatgatgc tgggtgctgg 1380
 tatcctgtgc attgtgactg tctgtgtgac tattgtgtgc acataatttc tactaaatgc 1440
 agaagattac cgggtggcaat ggacaagttt tctctctgct gcactcaactg caatctatgt 1500
 ttacatgtat tcctttttact actatttttt caaaacaaaag atgtatggct tatttcaaac 1560
 atcatttttac tttggatata tggcggtatt tagcacagcc ttggggataa tgtgtggagc 1620
 gattgggttac atgggaacaa gtgcctttgt ccgaaaaatc tataactaatg tgaaaattga 1680
 ctagagaccc aagaaaacct ggaactttgg atcaatttct ttttcatagg ggtggaactt 1740
 gcacagcaaa aacaaacaaa cgcaagaaga gatttgggct ttaacacact ggggtactttg 1800
 tgggtctctc tttcgtcggg ggcttaaagt aacatctatt tccattgatc ctaggttctt 1860
 cctgactgct ttctccaact gttcacagca aatgcttggg ttttatgcag taggcattac 1920
 tacagtacat ggctaattct cccaaaaact agctcattaa agatgaaata gaccagctct 1980
 cttcagtga gaggacaaat agtttattta aagcatttgt tccaataaaa taaatagagg 2040
 gaaacttgga tgctaaaatt acatgaatag gaatcttctt ggcaacttagt gtttctatgt 2100
 tattgaaaaa tgatgttcca gaaagattac ttttttctc ttatttttac tgccattgtc 2160
 gacctattgt gggacatttt tatatatattga atctgggttc ttttttgact ttttttttcc 2220
 caatccaaca gcactccttt ttttaaaaga gagaattaga aaatattaaa tcctgcatgt 2280
 aatataatct agtgcactct agttggacca acttcccatt tatttatctt aaaactatac 2340
 agttacatct taattccatc caaagaagat acagtttgaa gacagaagtg tactctctac 2400
 aatgcaattt actgtacagt tagaaagcaa agtggttaaat ggagaagata cttgttttta 2460
 ttaaacattt tgagatttag ataaactaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2520
 aaaaaaaaaa aaaaaa 2536

<210> 30

<211> 2182

<212> DNA

<213> Homo sapiens

<400> 30

ccacgcgtcc gaaagaaggc ccttggctgt ggcgccatgt gaaaaggatg aagacctcca 60
 ggcccttctc cctctgagtc tccctcccc tgatgaccct ctggaagcct gctggctcct 120
 cctcaccctc actcacactt caactcccag ttggattggc ctgtggacct acctgctgcg 180
 tctcagtagg agagaaataa tccagacctc aggaacttga cctcacagct ccagggaatt 240
 caccacgtgg gcgaacgggt agagtagaag atgctcagtg aacatgcgca ctgaggtggg 300
 cgcccaaaag gcattgcgcag tgagatgtgt gcttgctta ggggctgtgg tgtccctcct 360
 tgttccccct accctgctc tttcctccat ccttccctag gacccacta aggactttgg 420
 aatccatcct ccttgtgtgt ttttttttat gcctctgaga ctcaaatac tcaatatcac 480
 cgttcaaaac tactctgtgt ttcaactgac cctcctgccc tctatggccc ttgtcctccc 540
 ttgtctgggc cctcaagggt agcaagtgca tgggtggtgt gctgacttct agtagaagga 600
 tgaggatctc tatcaggccg tggaccaagt ggcccaacc atcgaagtct gctcactttc 660
 cctcatgttc actcacactc aacttctggg aggactgatc tatggacct tctgatgtgt 720
 tatagtttag aagaaagaag tcacaacatt tctcccaca gctctgcagg gacagaaggc 780
 agagagcatg gcccacagggt aacaggaatt tgcataaggaa gggacatgca cattgagcca 840
 gggactttta gggatgtcca gagttttccc tctgtcacca tgatagcagc agccacttgc 900
 atcatactgg ctgcagcagg gaagcccagc cagagctgca tgctctgtgg agccagcaaa 960
 agccagggac aagtgggatc cccacctttt acaagtgtgg gagggagccc ctgggtgccc 1020
 ctgcagccac ccaaactgca gttgaagacc cagacttctg gctctatgga gcaggcagga 1080
 tcctgcccct cctgggtgca gctgtagcca ctggatccat ggctgcagac ccaggagctg 1140
 gggacaagtg ggagcccca cccttcagag ttggcggtgc aggagctcct tgggtgcagc 1200
 tgcaacttcc cttcaagggt caggaccag gtgtgtctgt agcctgcaat ctctgaagcc 1260
 tgggaaggcc cccactgtcc ctggggagca gggaaacagg gacactgtcc ctggggagca 1320
 ggctcagagg tgtctgctcc cactacctgg tctctccctg ctcccagcac ccactatgat 1380
 ttcagagcag gttgtgggct gagccccctg actctcacag ctcatatggg cttgcacatg 1440
 ggcaggctcag ccctggaatg ccagccccct gccacctcag accctccag aatttgggtg 1500

ccaagaaaca	tgagagggga	agccaagggg	gtgctgaggg	cagctgggta	gtgctctgca	1560
ggtccgagca	gcctgggcac	catggactgc	agtgggaggg	agacagggtc	cagagcagaa	1620
gggggtggtc	ctaggttaagg	tcccaccttc	aggccagggga	tgggccaggc	tgccaatccc	1680
agagaccaga	gtatggactt	gtggtgcctt	ttctaggccc	acccatggac	taatgtacat	1740
gcactttctc	ccctctgagg	tccgtaaagt	cctgggactc	agccagagca	gggcagagga	1800
tgggagcaat	gggacaacca	gctgcagaga	ggagctaccc	tctccagggc	ctcctctctg	1860
ctgagagctg	cagatgttgg	aaagacctgc	ctgcagagag	gagacacact	cttcaggggc	1920
tcctctctgc	tgagagctga	acacttgacc	tgacgacctg	cctaaagagg	agctactgac	1980
tgtggatctc	ctctgagctg	ttctaacact	caataaagct	ccacttgttt	gcatacctta	2040
ttcttcccag	atgcattaac	aagaacttga	acaaagggtg	caccagacac	agaggtttcc	2100
agccagaaaa	ttgactgccc	aaagatccca	tataaccctg	accacatcc	acagggcatt	2160
ttttagtaaa	aaaaaaaaaa	aa				2182

<210> 31

<211> 5143

<212> DNA

<213> Homo sapiens

<400> 31

ggcacgagtg	gaactcccct	tcgtcactca	cctgttcttg	cccctgggtg	tcctgacagg	60
tctctgctcc	ccctttaacc	tggatgaaca	tcaccacgc	ctattcccag	ggccaccaga	120
agctgaattt	ggatacagtg	tcttacaaca	tgttgggggt	ggacagcgat	ggatgctgg	180
gggcgcccc	tgggatgggc	cttcaggcga	ccggaggggg	gacgtttatc	gctgccctgt	240
agggggggcc	cacaatgcc	catgtgccaa	gggccactta	ggtgactacc	aactgggaaa	300
ttcatctcat	cctgtctgga	atatgaacct	ggggatgtct	ctgttagaga	cagatggtga	360
tgggggattc	atggcctgtg	cccctctctg	gtctcgctgt	tgtggcagct	ctgtcttcag	420
ttctgggata	tgtgcccggt	tggatgcttc	attccagcct	cagggaagcc	tggcaccac	480
tgcccaacgc	tgcccaacat	acatggatgt	tgtcattgtc	ttggatggct	ccaacagcat	540
ctacccttg	tctgaagttc	agaccttct	acgaagactg	gtagggaaac	tgtttattga	600
cccagaacag	atacaggtgg	gactggtaca	gtatggggag	agccctgtac	atgagtggtc	660
cctgggagat	ttccgaacga	aggaagaagt	ggtgagagca	gcaaagaacc	tcagtggcg	720
ggagggacga	gaaacaaaga	ctgccccagc	aataatggtg	gcctgcacag	aagggttcag	780
tcagtcccat	gggggcccgc	ccgaggctgc	caggctactg	gtggttgtca	ctgatggaga	840
tgcccatgat	ggagaggagc	ttcctgcagc	actaaaggcc	tgtgaggctg	gaagagtgc	900
acgctatggg	attgcagtc	ttggtcacta	cctccggcgg	cagcgagatc	ccagctcttt	960
cctgagagaa	attagaacta	ttgccagtga	tccagatgag	cgattcttct	tcaatgtcac	1020
agatgaggct	gctctgactg	acattgtgga	tgcactagga	gatcggattt	ttggccttga	1080
aggggtcccat	gcagaaaacg	aaagctcctt	tgggctggaa	atgtctcaga	ttggtttctc	1140
cactcatcgg	ctaaaggatg	ggattctttt	tgggatgggtg	ggggcctatg	actggggagg	1200
ctctgtgcta	tggcttgaag	gaggccaccg	scctttcccc	ccacgaatgg	cactggaaga	1260
cgagttcccc	cctgcactgc	agaaccatgc	agsetacctg	ggttactctg	kttcttycat	1320
gcttttgcgg	ggtggacsc	gcctgkttct	ctctggggct	yctcgattta	gacatcgagg	1380
aaaagtcatc	gccttcacgc	ttaagaaagt	tgggctgtgt	agggttgccc	agagctcca	1440
gggggagcag	attggttcat	actttggcag	tgagctctgc	ccattggata	cagataggga	1500
tgaacaact	gatgtcttac	ttgtggctgc	ccccatgttc	ctgggacccc	agaacaagga	1560
aacaggacgt	gtttatgtgt	atctggtagg	ccagcagtc	ttgctgaccc	tccaaggaac	1620
acttcagcca	gaaccccccc	aggatgctcg	gtttggcttt	gccatgggag	ctcttcttga	1680
tctgaaccaa	gatggttttg	ctgatgtggc	tgtgggggcg	cctctggaag	atgggcacca	1740
gggagcactg	tacctgtacc	atggaaccsa	gagtggagtc	aggcccatc	ctgccagag	1800
gattgctgct	gcctccatgc	cacatgccct	cagctacttt	ggccgaagtg	tggatggctg	1860
gctagatctg	gatggagatg	atctgggtga	tgtggctgtg	ggtgcccagg	gggcagccat	1920
cctgctcagc	tcccggccca	ttgtccatct	gaccccatca	ctggaggtga	ccccacaggc	1980
catcagtgtg	gttcagaggg	actgtaggcg	gcgaggccaa	gaggcagctc	gtctgactgc	2040
agccctttgc	ttccaagtga	cctcccgtac	tcctggctgc	tgggatcacc	aattctacat	2100
gaggttcacc	gcatacttg	atgaatggac	tgtgggggca	cgtgcagcat	ttgatggctc	2160
tggccagagg	ttgtcccctc	ggaggctccg	gctcagtgtg	gggaatgtca	cttgtgagca	2220
gctacacttc	catgtgctgg	atacatcaga	ttacctccgg	ccagtggcct	tgactgtgac	2280
ctttgccttg	gacaatacta	caaagccagg	gcctgtgctg	aatgaggggc	cacccacctc	2340
tatacaaaa	ctgggtccct	tctcaaagga	ttgtggccct	gacaatgaat	gtgtcacaga	2400
cctggtgctt	caagtgaata	tggacatcag	aggctccagg	aaggcccat	ttgtggttcg	2460
aggtggccgg	cggaaaagtgc	tggatatctac	aactctggag	amcagaaagg	aaaatgctta	2520

09050003-0920

09950081.091201

caatacagagc	ctgagtctca	tcttctctag	aaacctccac	ctggccagtc	tcactcctca	2580
gagagagagc	ccaataaagg	tggaaatgtgc	cgcccccttct	gctcatgccc	ggctctgcag	2640
tgtggggcat	cctgtcttcc	agactggagc	caaggtgacc	tttctgctag	agtttgagtt	2700
tagctgctcc	tctctcctga	gccaggtctt	cgtgaagctg	actgccagca	gtgacagcct	2760
ggagagaaat	gggacccttc	aagataaacac	agcccagacc	tcagcctaca	tccaatatga	2820
gccccacctc	ctgttctcta	gtgagtctac	cctgcaccgc	tatgagggtc	acccatatgg	2880
gaccctccca	gtgggtcctg	gcccagaatt	caaaaccact	ctcaggggtc	agaacctagg	2940
ctgctatgtg	gtcagtggcc	tcacatcttc	agccctcctt	ccagctgtgg	cccatggggg	3000
caattacttc	ctatcactgt	ctcaagtcac	cactaacaat	gcaagctgca	tagtgcagaa	3060
cctgactgaa	cccccaggcc	cacctgtgca	tccagaggag	cttcaacaca	caaacagact	3120
gaatgggagc	aatactcagt	gtcaggtggg	gaggtgccac	cttgggcagc	tggcaaaggg	3180
gactgaggtc	tctgttggac	tattgaggct	ggttcacaaat	gaatttttcc	gaagagccaa	3240
gttcaagtcc	ctgacggtgg	tcagcacctt	tgagctggga	accgaagagg	gcagtgtcct	3300
acagctgact	gaagcctccc	gttggagtg	gagcctcttg	gaggtgggtc	agacccggcc	3360
tatcctcatc	tcctgttgga	tcctcatagg	cagtgtcctg	ggaggggtgc	tcctgcttgc	3420
tctccttgtc	ttctgcctgt	ggaagcttgg	cttctttgcc	cataagaaaa	tccttgagga	3480
agaaaaaaga	gaagagaagt	tggagcaatg	aatgtagaat	aagggtctag	aaagtcctcc	3540
ctggcagctt	cttcaagaga	cttgcataaa	agcagagggt	tgggggctca	gatgggacaa	3600
gaagccgcct	ctggactatc	tccccagacc	agcagcctga	cttgactttt	gagtcctagg	3660
gatgctgctg	gctagagatg	aggctttacc	tcagacaaga	agagctggca	ccaaaactag	3720
ccatgctccc	accctctgct	tccctcctcc	tcgtgatcct	ggttccatag	ccaacactgg	3780
ggcttttgtt	tggggtcctt	ttatccccag	gaatcaataa	tttttttgcc	taggtgcctg	3840
actcctttca	gattccctct	ttatcttccc	tcacagtttg	gaaaggatga	gggttatctt	3900
cctcgattct	tcaccctctt	cactttcctg	cctgttcccc	actccacagg	agggagctga	3960
cggtggcttg	aaaggagtaa	agtcaacatc	tgctgctttc	ctgtggactc	tggtgattca	4020
tagagccgga	tggggagagt	caacaggaaa	aaaggaggga	ggaggaaaaa	ccacaagaga	4080
cattctgtac	aattccaagg	aacagagaag	ccttttagaca	ggcaactgcc	atccccctg	4140
aaacctgaga	cctgtagtgc	actcgaccgc	cctcaggtgt	tggtgaaaca	gagctgcccc	4200
caggctcgct	gggcataggc	ttcctgattc	caagcctttt	ctgggagcaa	agccagggcc	4260
tggtgccctga	ttttctgaag	ccaggagccc	tcaggtggct	ggagctggaa	tagcaggggag	4320
gactgggtgt	acctaggcag	tattttctct	acttctctca	agtcttatac	tcactcttga	4380
gccctccttg	gggcctgctt	agaaaagcaga	caggagagag	agtactgcta	cttgatgatg	4440
ggaaatgctt	tcactttacc	agctttggga	agcagcagcc	ccatgggatc	taaaagtgtg	4500
gagtcgtcat	taagaaacct	acatgggtgg	catggggctc	tggggagcaa	gcccttactt	4560
gctcagcact	ggttatgtag	cacaaatagc	tcctaggaag	atgtttcttg	ggcaacctta	4620
gaaccttggt	catattttgc	agggtttctc	tgggtggaatc	agtttgccag	cccttgcttg	4680
atgcttactg	gaaatctcca	ggttaatttc	tatctctgat	ccctcccaa	cccactccat	4740
atttgggtca	tggacagtaa	aggcagttgg	attctcatag	acaactgggt	aacttatatt	4800
tctttgtaat	caagacttga	gatatcgaa	tcagttattg	gtctccagag	tgcagctctg	4860
ggagcctttt	gaagaatcag	cactcattaa	gagctgagaa	gagagaagac	ctgattgggt	4920
ggttgactag	cagtcacaga	acctgtcctc	ccaggctgtt	cctgaggcct	gaccacagta	4980
tttattttgg	catgtctctg	gccttctgca	gaggcccacc	ctcatgggca	ttgtctctgt	5040
ttcccagtg	ggtggacagt	atatcagatg	gtcagaacaa	ataaagttca	gtgtcwaatg	5100
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaagggggg	ggg		5143

<210> 32

<211> 607

<212> DNA

<213> Homo sapiens

<400> 32

ggcacgagtg	ggcctggaat	tcgccacagg	acggatctta	cagaggcaag	tggctccctgg	60
acctctcttg	catccattct	ctagacggcc	gtgtcagagg	ctccaccctg	ttgtgaactt	120
ggtatggagg	caaaggctta	gaggctggac	cagcattctt	gggcaaggac	tgactctcga	180
agggttttgt	tcttggcttt	ggacacctga	gaacccccctc	ctccccctcc	ccaatacaag	240
gtttttgaca	tgagtgtact	cctgcttagt	tcctcttctg	gggctgcatt	tgcggtgctt	300
tgccctcccc	actgtgagtg	aggggccaa	ggatctcctc	aatcctgtct	ccccagcggc	360
tctgtttcct	ccttcttttc	ttggcctctg	tccttttgctg	acttctctct	ccttaccag	420
cagaactcac	cctggggctg	gggcagtg	gaggggccta	tccactgctc	ttcctagtcc	480
ttggcagctg	gcctagggtg	gcagactata	ggagggactg	gttaggagtc	tgcattgctt	540
tgacttccct	ctccttggtt	aataaacaca	aatgcttggt	tctcaaaaaa	aaaaaaaaaa	600

aaaaaaaa

607

<210> 33
 <211> 596
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (564)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (569)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (571)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (578)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (580)
 <223> n equals a,t,g, or c

<400> 33
 cagctatgac ccatgattac gccaaagctcg aaattaaccc tcactaaagg gaacaaaagc 60
 tggagctcca ccgcggtggc ggccgctcta gaactagtg atcccccggt ctgcaggaat 120
 tcggcacgag aattggggaa aagggtattc aatattttatt aagtaacaat gagaaatgca 180
 acaaacttcc ttattttatgc cttatgaata aaagagtgtg gaatgtaagg tgaaatttta 240
 tgtgcaagat cctgaaggaa tgggtattct tgaaggcagg gactgtcttt tctatgtttg 300
 ttctgtacag ctctcagcac actcttggtg cttgataaat gttatgatgt tatataatac 360
 caataactaa gcacatTTTT agatctTTTT tcaaatggct tgtgtaaaat ttggttaatg 420
 tacaatgggt ggtttgaagc tatcatgtaa aattggcctc tccaaatata atcagaaata 480
 aaccgaaaaa aatataaaaa aaaaaaaaaa aaaaactcga gggggggccc ggtacccaat 540
 tcgccctata gtgagtcgta tacnctaant nctttttntn cctatagtga gtctta 596

<210> 34
 <211> 1380
 <212> DNA
 <213> Homo sapiens

<400> 34
 gagtagatat tcaacacatg gacaagtgtt taattattct ttgtatattc ctgttgtttg 60
 taaaacagct tataattttt aaaactattt taaagggaat gaaagtagga attacagga 120
 ggcagttatc aattagatat aaggatgaat tctctagtag agttagatgt aataaagata 180
 ttgccacact ctatccatat gtttatacat caaatttttta ctgagtacat acatcatgag 240
 acaaaataaaa cttcctgtca caaaaggtgc ttgacaaaaa ctcaagaatc acctttcagg 300
 gatactgtta aaagtgttcc cacatcagct aggagttagc tctagagggc ttttaagagc 360
 tttggccatc ccgaaattct atgcttgaaa cacgttttct catagaaacg ctcctaccaa 420
 aggccagtga gagaactatc actttgtgaa gaatttcaga atgccacta gctctcctgt 480
 agccctaaaa ggtaatgaga gtctacctgt tcagactgag agctccggct gccttgtgct 540
 acagaagcag taagtgcattg taaaggacgc catattttcta agacaaaagc agtaacaatg 600
 actcaaggat gatgcctaata agacgattta acctataact ttgctaattg tcatattttc 660

0950066-091201

aaaacagccc	tatgggaagg	gtacacaaat	gtctggggag	tatttcctgc	tttttagcac	720
ccagggaaact	acaaccagga	gcccagctta	ttttggattg	gggatgggga	tagacaagaa	780
gagatggggc	agggagaaga	gacggctggt	ttattttaca	tacacatatt	ttattttataa	840
tacatctctg	tgtctaggag	gctctatgct	ggctctcataa	aatctgaatt	atacaaataa	900
aagtttaatt	cctggctggt	tttgaatgac	ttgggcctgt	attacaaaat	taatcagata	960
caattatact	atcttcacaa	caacaatcat	ctacattggg	gtttgacaat	gtacaaagta	1020
cttccatgtg	tattatttcg	tttatcttta	ccacaacctt	tgaagtagga	agacatgatg	1080
atccccatth	tactgcctag	gacagagaga	catcaggagg	ttaactgact	tgttcactga	1140
gaaagcggag	gagcacagac	tataactcca	acagtttgac	cccatactgc	atacgcatca	1200
gggccttaat	catgagactg	tatgaccctt	ctgagcctgg	gattcacttg	caactgggta	1260
ttccctcttc	tacctcaggc	cccctatacc	ttttcaaaaa	gtgtccttca	ctgtaaataa	1320
tcttcctggt	ggtgacccta	aaggatctga	caacctggat	ctacgtaaaa	aaaaaaaaaa	1380

<210> 35
 <211> 903
 <212> DNA
 <213> Homo sapiens

<400> 35						
agctcaaaac	aaacaaacaa	acaaaaaaac	ctaagtcctt	tcgctgtcaa	atccttaggg	60
gagtaaattc	tgatcatctt	gggtacctgt	tttcttgact	tttcaagggt	ttgaaaagag	120
ccttatgatt	cagccaaact	ttccaacagc	tctgatgggc	agttttatct	cactccact	180
ctaccagct	ctgttctctt	cttctcttcc	actgtgtctg	aatttgacag	ggtcccagtc	240
tcagtggatc	tgttcaaagt	gtttataatg	ttactcttct	gggcaatttt	tgcttcatac	300
gttccatctc	aatcaatgca	tttcagggtg	tgtggcagag	agatttttgg	gggtgctggt	360
acaagcaaga	caggaatamc	ccttaagtca	caataaaggc	ctctgcaggg	agtttttaca	420
ttcacttcat	tttagacatc	ctcatcttcc	tttctacat	catgtaattt	gtgtgatttt	480
tttttttttag	atggctattc	atatgaaaag	gaagcaatgg	aaaattggat	cagcaaaaag	540
aaacgtacaa	gtcccagac	aaatcttggt	cttctctcag	cggtaactac	accaaataag	600
actctgaaaa	tggccatcaa	tagatggctg	gagacacacc	aaaagtaaaa	ttgttgatat	660
tgtattattt	atattttcag	tgatctcatt	tgaatgattt	ataggtaaat	actaatcaga	720
cattattaaa	agcaaaacag	gaaaaaggta	aacttcttaa	atttagttac	ctataaaaaat	780
tgtcaatttt	cattctttta	aaacacatgg	acttactata	aaagcctttt	tgtactagtg	840
aaaagaatct	tcagctatat	agaaataaag	ttatacttta	aaaaaaaaaa	aaaaaaactc	900
gag						903

<210> 36
 <211> 1809
 <212> DNA
 <213> Homo sapiens

<400> 36						
gttaagtgtg	cccattgcag	tggattgagt	ggagggcag	tgaagggcag	gtgttttcaa	60
gtcaaaggag	ttcagggtgaa	gggcagggtg	ttttagtcaa	aggagtctct	tagcattatt	120
tcctccttta	tttgagagac	agattgaaga	tgtaggggac	tagaatgcag	ttgtagtgtg	180
tggtgtttac	tttttatgga	aaagtgcctc	ttatgtgaaa	agtcttctgt	gcttgatcct	240
gggggtaggg	gggttataaa	aatgtcatac	ctgggatcct	gcccttaagg	agttgatggg	300
aggtaatgct	ttcctttggc	tttttggtca	tcttgagtct	gtgtatgttc	agttatcttc	360
agccatttcc	tgggcaatgg	graacatttc	tgtaaaaaca	aacttctgac	tttgatctgt	420
gacttatatt	tcttttttaga	taatgaagaa	ccactgggat	tagagggtgt	ataaaatata	480
ataataagta	tagtgtatgt	aggaacctct	gtmcaaccaa	tttggtgact	tttaggcaac	540
tcatttgact	atttgactgt	ttgttacatg	agtgtgcatt	tggcyttggt	taaaattcct	600
ctataaagca	catttttaaaa	aatgaccacg	tacttagtat	ataagatgaa	ctgccatttg	660
tataattgat	cattttaaaaa	tgcttattat	acttttaatc	aatcagtttc	catgtttatg	720
aatgggaat	aattattata	tctagctcat	agaattgtcc	tgaagatgaa	atttatatcc	780
atatatacat	aatgaagctc	tttagagcaa	tgtataacta	catgccaaact	gttcaaaaaa	840
tattaatggc	tacatcacta	ttaatattht	aaaattagta	ctgtcatttt	cccttcctac	900
atgactgaat	gtaggagggt	actatthttg	ttataaaaag	atttccaatg	agataccttt	960
gaatggtaaa	atttctctatg	cattttattta	aatgtttata	tatatatgtc	tttaaagtat	1020
gaaagttaag	tgcacttata	caaggcagat	tcaggtaacta	attaaactgc	tcatttagat	1080
tacagaatga	gggactgaaa	attatatgta	tttaattagg	aattggattg	attggtcttg	1140

actgctgktg	tctttcagtt	cttttttatt	gttatacttc	ccatgtgttt	gtctcctttt	1200
ctttttatct	tttaaaaatt	gctttctgat	ttatttcctg	ttcagttttc	agtaatgggt	1260
gtagaatagg	gcaagaactt	atgttggtgc	ccgttggttg	aaccaggaag	gagcaactgc	1320
atcagacagc	ctggggctca	gttgggaggg	acttcagatc	agtccttgca	gagctgcctg	1380
gccagggaa	ccactgaatt	ccagtttctt	aactccaaat	cggacagttt	gtgggtctac	1440
actgtatgta	cataatgaac	attttaaggc	tcattcatcc	agtgttttcc	acatgctccc	1500
atttgtttag	ttctcctttt	taaaaaccaa	taattatgga	aaaatttagc	tatgtacaga	1560
aatagtagtg	agaaaccccc	cacttagcca	tcattgcagct	tcagcagttg	atcatctcat	1620
agccagtctt	gtttgctcaa	tactcccaac	catttctttt	ctcccatttt	attttgcagg	1680
aaatcccaga	cattatatca	tttaattctaa	aagtatttca	ggatgtatct	gtaagagatg	1740
aggactcaaa	aatgcataca	cacattttga	gaacttccca	aaaaaaaaaa	aaaaaaaaaa	1800
aaactcgag						1809

<210> 37

<211> 934

<212> DNA

<213> Homo sapiens

<400> 37

ggcacgaggt	tgtctaccct	cattagttta	tttttgacaa	aaagttgctt	ttagaaatac	60
tttacttggt	gaagttggtt	tactatcaaa	gcatacctat	tagcttttga	agggagtcct	120
cctgtaaaat	ttataggatt	aaaagttttc	atgtgcttgt	gactaattat	gaggtttata	180
gtggttttaca	ttttgagata	gttatatata	taatatgcc	ttttcttttg	tgacattata	240
cgtatttttt	tatatgtcat	ttaaaattaa	atgacttgct	tttgccagat	taaatacaga	300
taccattggg	gttttctggt	ttgattccta	atgataatat	ggattgattt	caggtgtaat	360
tattgaaaca	gatataattg	gttcagacct	tttgaagaac	tctgaccag	agacacagtc	420
cagcatgcct	gatgtaccat	atgaaccaga	tttgatatac	gaaatagatt	ttcccagagg	480
tactcaaaac	ctttatgact	atggaattta	gttatggagt	caactgtggt	tatgatcatt	540
taccatttga	tgtttgtgtc	attgcctttt	agcagtgttc	atatttttta	ttcttgttat	600
tttttaaaact	caccttaaga	gttaacttca	tattttgttg	ttgttttttt	ttaaaaaccc	660
accttaacag	ttaacttctg	gaatgagatc	acttgagtcc	aggagttaa	gaccagcctg	720
ggcaatgtgg	tgaaacactg	tctctactga	aaatataaaa	attggccagg	cgtggtggtg	780
catgcctgta	atcccagcta	ctcgggaggc	tgaggcagga	ggattgcttg	agaccaggag	840
gtagaggttg	cagtgaagcg	agattgtgct	gctgcactcc	agcttgggca	gcagagttag	900
accctgtctt	taaaaaaaaa	aaaaaaaaaa	aaaa			934

<210> 38

<211> 850

<212> DNA

<213> Homo sapiens

<400> 38

gggctgcagg	aattcggcac	gagaaaatag	tcctcccttc	aacatggcta	tcttttttca	60
agttttatat	gcatagctct	ctcagcactt	gaatggaaaa	actgttacag	catttgggag	120
ttgtttttct	tttagacatt	tgcagatctt	atctcaaggt	gactaggaac	ccagagctaa	180
gtatctgtga	ggcaatctct	gcgaacgctg	aacttaccta	gttggtttct	atgaaatatg	240
tagaatgcac	tgcagtagcc	attgtaagaa	ggtactatac	cggttttttg	gggcttggtg	300
ttgttggttg	gtctgagaat	gtactgccaa	cccctctttt	ataagagaga	actgattttg	360
atacatattt	taaaatatga	tagtacagag	ttaatggatg	ttaaaatttt	atttctttgt	420
tttggttaagt	agattaaatc	gagaatcata	taatcagtac	atttgagaat	tatataacca	480
gtatataata	atactggaca	caaccatttg	ccatcttttc	ctgttatcat	cccatagagt	540
gggtggggag	aatgaataga	cataaaccta	gaataatgat	aaatgggttt	taaaactcta	600
tattgaatac	attccagctg	ataatgactt	ttctttttca	ccttggtgat	atcagcctca	660
gggtaaaaaa	aaaagtttca	taaatctttt	agttataaac	aggaaagtgt	tatattagtg	720
tgtcattttca	tttctagact	gttgatgggtg	atgatgataa	agaatttgga	gccaattttg	780
atatatgaat	gtattgcttt	tacatgtgat	gattaaagct	ctccattagc	aaaaaaaaaa	840
aaaaaaaaac						850

<210> 39

<211> 1713

<212> DNA

<213> Homo sapiens

<400> 39

gtctcaatgg	acacttagaa	gaatttgatg	atcttactgt	cataaaatca	gtaatgaaat	60
tctcagcaaa	actatttggg	aaacattgca	ccctgtattt	ttacccaaca	tcttggtatg	120
aaaattatca	aatacattaa	aaagttaata	attttatagt	gtactcacta	cctagatgct	180
aattagcatt	acctatgctt	gctttgtcac	atatccattc	atcatttcat	attattattt	240
gatgcatttt	aaattgcata	tcattaaacta	gagttcattg	ttggcttttt	tacataaaat	300
tagcatgcaa	tgaagtgcac	agaaatatgt	gttccactgag	gtttggcaaa	tgcataatagt	360
gctatggaaa	taggaaacgt	tatcaccacc	ctagaaagtt	tccacactgc	cctttccagt	420
caattcctgt	ccctacttga	ccctcaaagg	caaccactgt	tcctttttct	accataagat	480
ttttctgttc	taaaacttta	tataaataga	gtcacgcaac	atgtacgctt	ttctacaagg	540
cttcattttt	ttattgctgt	tcttttttat	tgctgagtag	tattccactg	tatgacaata	600
ttacagtttg	ttttcttaat	ttcctattat	tgatagatac	ctgggctgtt	tccaggattg	660
gccattataa	ataaagctgc	tatgaccatt	cttacgtaag	tctttgtgaa	cataggtttt	720
catttctttg	cagtaaattc	cttggattag	aattgctggg	tcacagggtg	gttttaaaag	780
aaactgccat	acctttttcc	agttcagttt	tattgtgccc	tgtattttgt	attttgatgt	840
gcataaaggt	gtaaactatt	tttatgatcc	atattgaagt	attagaagaa	gtgagtttgg	900
aataacaatg	gcattgttca	tgggtcaagg	tgacaattgg	aactatctga	ggaaagcaaa	960
gacctgtctg	ccccagacag	ctcctcaagg	ggttcctatg	cctgaaactt	tagcaatatt	1020
tcactccttg	aaagggttaa	gcccacccat	ggatgatagt	tagctagaag	aaacagcact	1080
ggtttgttta	tgttactaac	tttcaccacc	cgttttcagt	aggtaaagta	agactgatca	1140
ttgaacagaa	aagggttatt	ctgtgatgag	gttgaggggg	tagtggaag	catgtattgc	1200
tagtaagccc	caggtacagc	tatgtgagag	agagtcacct	ggacagggga	gtcccccaaa	1260
tggtggccag	aagagcagaa	aacgggggtg	gaaaaattct	acctcacagt	tttgcatagg	1320
ggatagctat	gcttttacgg	gacattttag	cgtttaaaaa	tattttcaat	attgtctctt	1380
tattcaatac	caccagctg	tagttttttc	acactctgat	gactctctta	tccactcttt	1440
tacctctccc	agctgttcta	ttacatacag	cattcacctg	tattagtcta	tagaattata	1500
atcatctgtg	tgtttcta	gtcatttttc	aaaaatatgt	atgggtttatt	cgatttttcc	1560
tattaaaatt	ttaagggctg	ggaaatttgg	cttctactgt	aaatccttat	aatgttccac	1620
acattgtaaa	tatgcaataa	aatgtttaac	aactawaaaa	aaaaaaaaaa	aaaaaactcg	1680
actcgtgccg	aattcggcac	gagcgggcac	agc			1713

<210> 40

<211> 720

<212> DNA

<213> Homo sapiens

<400> 40

ccacgcgtcc	ggggaaatgg	cagatactgc	atgtgattct	gatgtcctgc	ttcagctggg	60
gcttgtctgg	ctgggtgaag	tgctaggtgt	cattggggac	tgtccagagc	tagttcagcg	120
ctccttcctg	gtggctagt	ttctgcttgc	ccccgatggc	aacattaact	cacctacaag	180
aaatgctgac	atgcaggagg	agctaattgc	ctcccctagag	gagcaactga	agctgagtgg	240
ggaacattct	gagtctttcca	ctccacgacc	cagatcatct	cctgaagaga	caattgagcc	300
tgaagctctt	caccagctct	ttgaggggtga	aagtgagacc	gagtctttct	atggccttga	360
agaagctgac	ctagatctga	tggagatttg	agtgttgggg	tcatgagggg	gtgtggagt	420
gggggtgggaa	catgtgaggg	agggtaaaag	ggcttagggg	aaagggggca	taccaggtgg	480
ggtatttggg	ttctattttt	taattttata	ccaccactcc	cccctgaagt	tgacttacac	540
ttccctgtgg	atltgtggat	taattaggaa	aaccaatagt	aatcacgtct	gagccaagga	600
gctggcccat	tggtcattca	cttctgctaa	aaacaggttt	ttgtgacttt	tttttttttt	660
aaatttaaat	cactgtgttt	ggtatttttt	tgacaaaaaa	aaaaaaaaaa	aaaaaaaaaa	720

<210> 41

<211> 687

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (675)

<223> n equals a,t,g, or c

<400> 41
 ggggtttctcc acatccttac caactccttat tattattagt ctttttttatt atagctatcc 60
 tagtacatgt gaagttatat tgtgatatta atttacactg ccctaatagat taataatatt 120
 gatcatcttt tattgagaat ctttgatgaa gtgtctgttt aaatcctttg cccattatca 180
 gttgggttat ttgggttttt ttattgttga gcaactgatag tttttaaaaa tatattctgg 240
 gtgtaacttc actatcagtc cattatcctt gcaaagggtt tctcccagtc tctggattgt 300
 ctttttcattc tcttaagagt gtcttttgaa gaacagaact gcttattttg atgaagtccg 360
 ttctttccat ttgttcattt ctgggttggt ctttgagtgc tgtatctaag aaatccttgc 420
 ctaaccaaag attacaatga ttttttcctg tgttttcttc taaaggttta agttttacat 480
 ctagatctag catgtatttt gagttatatg gtgtgaaata tggatccaag ttcttttatg 540
 tttttgtttt gttttgtttt gtttttgctt atggatattc aaatgtttcc acaccatttg 600
 tttaaaaata ctacccttc tcaataaaaa aaaaaaaaaa agggcgggcg ctctagagga 660
 tccaagctta cgtangcgtg catgcga 687

<210> 42
 <211> 1007
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (995)
 <223> n equals a,t,g, or c

<400> 42
 cggcacgagg catatgttca gctatatgtt ataaaaccag ttttcaagtg gttgtaccaa 60
 tgtacactcc caccaaccca gtatgcgagt tctagtgtc cactacttg ccaacatttg 120
 gcattttcca tcttttttac tatagccatt agtgggtggc atatagtgat atgtcagttt 180
 tagttttcgg ttttattttc ttgtcctcca aaccattgta gtatctcccc aggatagatg 240
 agtgaaggct gagacctgag acctaggcct gttcctcaca tgactgcacc attttacatt 300
 ctatcaatgt atgaggtttc cggttttctc acatccttac caactcctat tattattagt 360
 cttttttatt atagctatcc tagtacatgt gaagttatat tgtgatatta atttacactg 420
 ccctaatagat taataatatt gatcatcttt tattgagaat ctttgatgaa rtgtctgttt 480
 aaatcctttg cccattatca gttgggttat ttgggttttt ttattgttga gcaactgatag 540
 tttttaaaaa tatattctgg gtgtaacttc actatcagtc cattatcctt gcaaagggtt 600
 tctcccagtc tctggattgt cttttcattc tcttaagagt gtcttttgaa gaacagaact 660
 gcttattttg atgaagtccg ttctttccat ttgttcattt ctgggttggt ctttgagtgc 720
 tgtatctaag aaatccttgc ctaaccaaag attacaatga ttttttcctg tgttttcttc 780
 taaaggttta agttttacat ctagatctag catgtatttt gagttatatg gtgtgaaata 840
 tggatccaag ttcttttatg tttttgtttt gttttgtttt gtttttgctt atggatattc 900
 aaatgtttcc acaccatttg tttaaaaata ctacccttc tcaataaaaa aaaaaaaaaa 960
 agggcgggcg ctctagagga tccaagctta cgtangcgtg catgcga 1007

<210> 43
 <211> 1856
 <212> DNA
 <213> Homo sapiens

<400> 43
 ctgactttcc acctttccta caaattccga ttactgttgc tgttgacttt gtgcctgaca 60
 gtgggtgggt gggccacat gtaactactt cgtgggtgcc attcaagaga ttcctaaagc 120
 aaaggagttc atggctaatt tccataagac cctcattttg gggaaggga aaactctgac 180
 taatgaagca tccacgaaga aggtagaact tgacaactgy ccttctgtgt ctcttacct 240
 cagaggccag agcaagctca ttttcaaacc agatctcact ttggaagagg tacaggcaga 300
 aaatcccaaa gtgtccagag gccggtatcg cctcaggaa tgtaaagctt tacagagggt 360
 cgccatcctc gttccccacc ggaacagaga gaaacacctg atgtacctgc tggaacatct 420
 gcatcccttc ctgcagagggc agcagctgga ttatggcatc tacgtcatcc accaggctga 480
 aggtaaaaag tttaatcgag ccaaactctt gaatgtgggc tatctagaag ccctcaagga 540
 agaaaattgg gactgcttta tattccacga tgtggacctg gtacccgaga atgacttta 600
 cttttacaag tgtgaggagc atcccaagca tctggtggtt ggcaggamca gcaactgggta 660

0950082-091201

cagggttacgt	tacagtggat	attttggggg	tgttactgcc	ctaagcagag	agcagttttt	720
caaggtgaat	ggattctcta	acaactactg	gggatgggga	ggcgaagacg	atgacctcag	780
actcaggggt	gagctccaaa	gaatgaaaat	ttcccggccc	ctgcctgaag	tgggtaaata	840
tacaatgggtc	ttccacacta	gagacaaagg	caatgaggtg	aacgcagaac	ggatgaagct	900
cttacaccaa	gtgtcacgag	tctggagaac	agatgggttg	agtagttgtt	cttataaatt	960
agtatctgtg	gaacacaatc	ctttatata	caacatcaca	gtggatttct	ggtttgggtgc	1020
atgaccctgg	atcttttggg	gatgttttga	agaactgatt	ctttgtttgc	aataattttg	1080
gcctagagac	ttcaaatagt	agcacacatt	aagaacctgt	tacagctcat	tgttgagctg	1140
aattttttcct	ttttgtattt	tcttagcaga	gtccttggtg	atgtagagta	taaaacagtt	1200
gtaacaagac	agcttttcta	gtcattttga	tcatgagggg	taaatattgt	aatatggata	1260
cttgaaggac	tttatataaa	aggatgactc	aaaggataaa	atgaacgcta	tttgaggact	1320
ctgggtgaag	gagattttatt	taaattttgaa	gtaatatatt	atgggataaa	aggccacagg	1380
aaataagact	gctgaatgtc	tgagagaacc	agagttgttc	tctgtccaagg	tagaaaggta	1440
cgaagataca	atactgttat	tcattttatcc	tgtacaatca	tctgtgaagt	ggtgggtgtca	1500
ggtgagaagg	cgtccacaaa	agagggggaga	aaaggcgacg	aatcaggaca	cagtgaactt	1560
gggaatgaag	aggtagcagg	aggggtggagt	gtcggctgca	aaggcagcag	tagctgagct	1620
ggttgcagst	gctgatagcc	ttcagggggag	gacctgccc	ggtatgcctt	ccagtgatgc	1680
ccaccagaga	atacattctc	tattagtttt	taaagagttt	ttgtaaaatg	attttgtaca	1740
agtaggatat	gaattagcag	tttacaagtt	tacatatata	ctaataataa	atatgtctat	1800
caaatacctc	tgtagtaaaa	tgtgaaaaag	caaaaaaaaa	aaaaaaaaaa	aaaaac	1856

<210> 44
 <211> 802
 <212> DNA
 <213> Homo sapiens

<400> 44						
ggcacgagag	ccagcagagg	cgaggggaagg	cgctactgcc	ccggcgggga	gacggggcagg	60
acgccttgcc	ccgcaccagc	agcctccgcc	ggggcgccct	cagctccctg	cttggtctctg	120
tctctccaca	cccggcaggg	ccgcgggctg	ccccagccct	gggggtcgtg	ggcagctgct	180
actcagtgcc	aaccccggtg	ggcacagagc	catatacctc	gctgtccggc	ccccaccca	240
gcctgcctt	cccaccccat	cgtctccact	tcaggaaaag	ccgcacttta	cacccccacc	300
tgcctcttcc	ccctccatcc	ctgctccccg	atcctgagcg	gltgggggtg	ggtccctcag	360
caaccaccag	cgtggggttg	aggagacagg	tgatttacat	cccctttgct	gtcctcccc	420
ggtaccaagg	cagggagcct	ccggaggagc	cgcccttgct	ggccacgcag	gggccagact	480
ccagcctgtt	tccccagccc	tgcagggtct	ccttctgtgg	gaagcttcc	agcaagatgg	540
cttgaggatcc	tgggtccccct	cctccctggc	cctctcgttc	gtttctgttt	ctgtttacac	600
gttgaggatgg	ggtccctccgt	gggcggcgcc	gcgccttgcc	ccgggtgtcg	tccggcctct	660
tgtgctcgag	cccctttccg	agttggactc	gaccatccct	cacccaccca	aggaccacac	720
tgtgaagtga	taactgcctt	gaacccccct	ttgctgtttt	atttattaaa	cttgatttga	780
agccaaaaaa	aaaaaaaaaa	aa				802

<210> 45
 <211> 690
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (142)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (525)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (677)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (678)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (679)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (682)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (683)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (684)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (686)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (690)
 <223> n equals a,t,g, or c

<400> 45
 ggcacgagtg ctttcaggca acctgaaatg gtttttcttc gagtacctgt aaagtactga 60
 ctctgaagca ggagcgcctt aatagtttta taaactcaat caatagaatg aattttttct 120
 tttctccctt tctttctctc tncctccctc ctgcctttct ttctctccct tcttttccct 180
 tcccttcccc tccccctccct cctccctcc tccctccct tcttctctc cctccttctt 240
 ggtcttggtc tgtaaccag gctgcagtg aatggcaaaa tcatagctca ctgtaacctc 300
 aaactcttgg gctcaaggaa tcctctggaa agctttttca aagagatggt cgtaggctct 360
 ctcctcaaa atgttttaaaa atgggacag gctgggctca gttgctcatg cttgtagtcc 420
 cagcactttg ggaggccgaa gcaggcagat cacatgaggt tgggagttcg ggaccagcct 480
 gaccaacatg gagaaatccc gtctctactt aaaatacaaa actanccagg cgtggtagca 540
 catgcctgta atcccagcta tttgggaggg tgaggcagga gagtcgcttg aactggggag 600
 gtggaggttg cagtgagcca agatcgacc attgcactcc agcctgggca ataagaatga 660
 aacaccatct caaaaannna annnanaaan 690

<210> 46
 <211> 1647
 <212> DNA
 <213> Homo sapiens

<400> 46
 ggcacgagat gaagccctgt ccaggctatg ggcacaaaga cagcattgcc ggcggtgag 60
 ctgggcctct actctctggt gctgagtggt gccctggcct atgctggcgg gggcctcctt 120
 gaggtttcac aagatggggc ccacaggaag gccttccggg agtctgtgcg acctggctgg 180
 gactacattg gccggaagat ggatgtggct gacttcgagt gggatgatgt gttcacctcc 240
 tttcgcaacg tcatcatctt tgccctctcc ggacatgtgc tgtttgctaa actctgcacg 300

atggttgccc	caaagctccg	ctcctggatg	tatgctgtgt	acggggcctt	ggctgtgatg	360
ggcacaatgg	gcccttggtg	cctgctgctg	ctgcttggtc	actgtgtggg	cctctatgtg	420
gcctcgcttt	tgggccagcc	ctggctctgt	cttggccttg	gcttggccag	cctggcctcc	480
ttcaagatgg	acccctaat	ctcttggcag	agcgggtttg	taacaggcac	ttttgatctt	540
caagaggtgc	tgtttcatgg	gggcagcagc	ttcacatgct	gcgttgacc	agctttgcac	600
tggagagctg	tgcccaccct	gaccgccact	actccttagc	tgacctgctc	aagtacaact	660
tctacctgcc	cttcttcttc	ttcgggcccc	tcaatgacct	ttgatcgctt	ccatgctcag	720
gtgagccagg	tggagccagt	gagacgcgag	ggtgagctgt	ggcacatccg	agcccaggca	780
ggcctaagcg	tgggtggccat	catggccgctc	gacatcttct	ttcacttctt	ctacatcctc	840
actatcccca	gcgacctcaa	gttcgccaac	cgcctcccag	acagtgcctt	cgctggccta	900
gcctattcaa	acctgggtgta	tgactgggtg	aaggcggccg	tcctcttttg	tgttgtcaac	960
actgtggcat	gcctcgacca	cctggaccca	ccccagcctc	ccaagtgcac	caccgcactc	1020
tacgtctttg	cggaaacgca	ctttgaccgt	ggcatcaacg	actggctttg	caaatatgtg	1080
tataaccaca	ttggtgggga	gcattccgct	gtgatcccag	agctggcagc	cacagtggcc	1140
acatttgcca	tcaccacact	gtggccttggg	ccttgtgaca	ttgtctacct	gtgggtcattc	1200
cttaactgct	ttggcctcaa	ctttgagctc	tggatgcaaa	aactggcaga	gtggggggccc	1260
ctagcacgaa	ttgaggcctc	tctgtcagtg	cagatgtccc	gtagggtccg	ggcctgtttt	1320
ggagccatga	cttctggggc	atcatcatgt	acaaccttgt	gagcctgaac	agcctcaaat	1380
tcacagagct	ggttgcccgg	cgcctgctac	tcacagggtt	ccccagacc	acgctgtcca	1440
tcctgtttgt	cacctactgt	ggcgtccagc	tggtaaagga	gcgtgagcga	accttggcac	1500
tggaggagga	gcagaagcag	gacaaagaga	agccggagta	ggagggagcg	ggtagaggga	1560
tgggctctgc	tcagctatct	ttggggccaga	tggggcctga	ccgatagaat	aaaagacttt	1620
tctacaacaa	aaaaaaaaaa	aaaaaaa				1647

<210> 47

<211> 2392

<212> DNA

<213> Homo sapiens

<400> 47

atttcacact	ggcattaaca	ggtctagcat	aagtggccta	ggcagtcac	ccaggctcca	60
aatgaagat	gtgcaaaaaga	gatgccactg	ggaatagaaa	cactgagttg	gttcagttag	120
gtcatccctt	gcagacgtgt	catcgagcag	gctgactccc	accctcagc	catgccattg	180
gtatgagaag	ccccttataa	tgaaagctgc	cagccctttc	gtccttggtt	cagagggtgg	240
gtcaggtggt	tggggtgaga	acttgtctac	ggtgcaccca	acaagacctg	caggtgcata	300
taagtttagt	cccaactgca	gggccagacc	aaacacttcc	tgggaagtgt	gtggagggct	360
gtgctagacc	ttcctgagtt	tctggctaaa	tcacagccc	tgtttggtgc	agtctcatgt	420
ctctgtgggt	cccaagctgc	atgatcagag	ccagtgcaga	gacaggatca	gtgaccaca	480
gctttgggga	aaaacagccc	cactgttaac	ttccctcctg	caaacctggg	tcccaggcc	540
ataaggtggg	cacactgggtg	cttacagact	gggtggagag	ccctaccttc	caaggtcttg	600
atcccagcct	gcctataagg	ttgggattag	catgcaatcc	cccttcccca	atcctgtctt	660
tttaaaatct	caagtttgca	cttaaccttg	acaacagcac	cctctcctac	tccagtccta	720
gaactcagtg	gccttagaga	atggggctccc	ctgcactgaa	ggtccccgcc	ttgctcccag	780
ttccatcctg	gccaataggc	tgccgctcaa	gaggtgaaag	agaaaaaagg	gagggaggga	840
ggaagaatta	tttagaacia	aaggatggct	cgagcacgtt	agaggcaagt	gagaggcacg	900
ttggtgagaa	gagcatgtgc	atgtttgggg	tagctggggc	ctactgtccc	ttcattaggg	960
aaggaggctt	ccagaagcgg	atgtcttcta	gaaagaaaaa	ttgtgtgaag	gctgaaaagg	1020
ggcttgagat	tttgtctttg	ttgattagaa	agaagggaaga	agtcagctct	gagtgtttca	1080
ggaagaagag	agcaggtaga	aagggaattt	agtgatttaa	cacccaaggg	tccagccata	1140
gcaggttgga	aaatcctcca	aatttggcca	cagaagctgg	ctaggaaaaa	actgccactc	1200
attgggccac	accgtgggtc	cccactagtt	ctcaatgaat	ggtcattgat	ttacttagca	1260
gagagaagtc	aaccagccaca	aaccaatctt	tgagtttgca	ggccctgatt	ccagaatata	1320
tgcatccagc	tcccggttcc	tcagctgggt	ttgcccactt	ccctttgact	gtccaatcca	1380
aagccagtct	ctcaagttgt	atggctcaaa	gagcagtgac	cacaatgggt	catacagtag	1440
ggaccacact	ccacaaatta	gaaccagagt	tcagactcca	ttgggcacat	ctgggaggaa	1500
ggcaacctcc	tttgtcgtct	tgttggtacc	agtcattctc	aagtatctct	gacacctgtg	1560
gtggttcagt	ttgctgagcc	tgccacctgg	tatgaattag	aytgggtgtg	atgaacattc	1620
atccatggat	ataccctacc	attttgcggt	gccttataac	caaggcacac	tcccataag	1680
agtttactgc	agagaaagaa	cagcaaaaca	gccacctccc	ttgaatttac	aactcattat	1740
ctgaacagg	tttcttttaa	atccaagaca	caggatggga	aatgggtttc	cccaccaggt	1800
actcagaggt	ctgcaggaag	tgactcccg	gcaaggcaga	cttcagtaat	ccctgaagcg	1860

tgagcatgtg	gactgcatgg	ctgggtgggg	actggtggat	gtctctggag	ctccagaacc	1920
ttggagaatt	cctcatggaa	tccccctccc	agctcttagt	gggctctgtg	gggtcaggag	1980
gagcccttcc	tccaggtttt	ccttctttcc	tctcagcag	agaaactgga	gaaaggacat	2040
taaactcagt	gcagtcgatt	tgagtgtctga	aataatttcca	gaatcaatgg	tggtgctaaa	2100
ctatctccat	gtttctagca	tttttaatat	tgaggttggg	ttgtttttta	tctcatcaca	2160
aaaatgcagt	gcccttgggg	aagggaccag	ccccttggcc	tgccactttc	caggtgtcct	2220
ttatcacttt	gacgggactc	tttgggtctgc	agaaaatgct	ctgtcttggc	atgcttctag	2280
actgtaagat	ttgggttttg	ttttgtattt	tatgtttaca	tgcattcttat	atttccctga	2340
aaactaaata	aagttttggg	ccttttttaa	aaaaaaaaa	aaaaaactcg	ag	2392

<210> 48

<211> 1782

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1765)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1771)

<223> n equals a,t,g, or c

<400> 48

ggcacgagcc	cgccctcagcc	caacatggcg	atgcacaaca	aggcggcgcc	gccgcagatc	60
ccggacaccc	ggcgggagct	ggcggagctc	gtgaagcgga	agcaggagct	ggcggaaaca	120
ttggcaaatt	tgagcgaca	gatctatgct	tttgagggaa	gctacctgga	agacactcag	180
atgtatggca	atattattcg	tggtctggg	cggtatctga	ccaacccaaa	aaactccaat	240
agcaaaaatg	atcgaaggaa	cgggaagttt	aaggaagctg	agcgggtctt	cagtaaatcc	300
tcggttacct	cagcagctgc	agtaagtgc	ttggcaggag	ttcaggacca	gctcattgaa	360
aagagggagc	caggaagtgg	gacggaaagt	gacacttctc	cagacttcca	caatcaggaa	420
aatgagccca	gccaggagga	ccctgaggat	ctggatggat	ctgtgcaggg	agtgaacct	480
cagaaggctg	cttcttctac	ttcctcaggg	agtcaccaca	gcagccataa	aaagcgaaag	540
aataaaaacc	ggcacaggat	tgatctgaag	ttaaacaata	aaccacgagc	tgactattag	600
aagacacatt	agtgcagaag	cttcagggt	gtagagccct	gcttcccttc	tctgacctca	660
caaagataaa	catccttcac	ctgagttcgt	ggccatccac	ctctgctctc	ccagaccag	720
tgcctgtgac	tttgagtagt	ttgttctaaa	tgtggtgaca	aacaagtcac	ttctgtaaga	780
cattgggtct	tactttatgt	cattttttagt	aacagaactg	caggaagatc	aagacaatgt	840
tgtaatcccg	gcaagtgtgt	aactgtgctg	ttctcccttc	ttagaatgaa	tgtctcccc	900
aaaactggct	ggcaccagct	tcactctgtg	tacccttcaa	gaaatgttct	ctggttttgt	960
tttatgctga	aagtagaaca	caagtcacat	ttcagatgga	ggctgtaaat	atctggcatt	1020
ttcttatatt	gttttatgtt	ttcttggttt	tctcttggtg	tttttatctt	attttctttg	1080
gggttttttt	gtaatgcctt	tgtacagctc	atactttcct	gctgacatat	ctgatcatct	1140
ctttcatgca	gttgccaata	ttcataactg	aaaataatct	ggtttatcat	aagtaaaatg	1200
ggaaacttgc	ctctgttttt	tgcaagggga	ggtaaagagt	gttttagta	tacctatctt	1260
aaatctttct	gagttggtag	tagattcatg	ttcaaggga	aggaaaaatg	gaaaaacata	1320
agtttaaatc	agttcttttt	aaataaactt	ttattctttt	gtataaataa	aatttcacag	1380
gcttcaaatt	ctcatgcttt	acttttaaac	ccgagattgt	tttttcaact	atttattcat	1440
atcatgcctt	atggaaattt	ctttttctgt	attttctctc	tttgctggta	ttcacctgat	1500
ttaaatttgc	tctaaaaatc	accatggcat	atggaaagtc	tcaaaaattat	accaaaagtg	1560
ataacttatg	tcgttcttaa	gtggagtga	aggatagcat	cagtgatagc	cagtgttgcc	1620
caccaggtct	ccctttcttg	gagggcttgt	tggtgctgag	gaatctgcta	gtaatcgtaa	1680
cctgcctcta	gtgctgtggg	gaacttgcca	caggtgtctg	ctggcacatt	ggaatcacct	1740
gagaagcttt	taaaataact	catgnctctg	nattcccat	cc		1782

<210> 49

<211> 619

<212> DNA

<213> Homo sapiens

00950032-001201

<400> 49
aaatttttgtt tcactgaata tgttttagaga tgccgccaga acattaacca ttgttttcatt 60
tttatgtaag ttgaagaaaa atgaagctag atagcatgtt ctccatttgc agtctacaaa 120
ggggaattttt attgcttaaa ttaaagtttc attttctggc ctgtgcaaga gacttttata 180
tctaaaatat ggatgtacgt ttttcatatt ttagagttca ttgtatggaa aaataccatc 240
aaagttagacc aaaagattttt gaaaatcctt accagttgtt tgtcatatgt taaagtctta 300
tggttaatttt tattttatttt atcttgttct cttgctgggtt attggcagac tcagtctttc 360
tgttttcaca aagaactcat gaagaggacg ataggggaaa cccacgtatg cctttgaggc 420
tagggactat gttgtaagtt cacctgtgat ggccagggtca tacagtcagtg gcacagccac 480
taacccattt cacagcacca aggactgggg acccagaagg cacttggtta tggcttccac 540
actaacgaaa atggaaattc cttaaattga gagaactggg accaccagg aaaaaaaaaa 600
aaaaaaaaaa aactcgtag 619

<210> 50
<211> 1693
<212> DNA
<213> Homo sapiens

<400> 50
gatccgggggt caccagttat tagaggaagt aacacaaggg gatatgagtg cagcagacac 60
atttctgtcc gatctgcaa gggatgatat ctatgtgtca gatgttgagg acgacgggtga 120
tgacacatct ctggatagtg acctggatcc agaggagctg gcaggagtca ggggacatca 180
gggtctaagg gaccaaagc gtatgcgact tactgaagtg caagatgata aagaggagga 240
ggaggaggag aatccactgc tgggtaccact ggaggaaaag gcagtactgc aggaagaaca 300
agccaacctg tggttctcaa agggcagctt tgctggggtc gaggacgatg ccgatgaggc 360
cctggagatc agtcaggccc agctgttatt tgagaaccgg cggaagggac ggcagcagca 420
gcagaagcag cagctgccac agacaccccc ttctgttttg aagactgaga taatgtctcc 480
cctgtaccaa gatgaagccc ctaaggggaa agaggcttct tcggggacag aagctgccac 540
tggccttgaa ggggaagaaa aggatggcat ctacagacagt gatagcagta ctagcagtga 600
ggaagaagag agctgggaac ccctccgtgg taagaagcga agccgtgggc ctaagtcaga 660
tgatgacggg tttgagatag tgcctattga ggaccagcg aaacatcgga tactggacct 720
cgaaggcctt gctctaggtg ctgttattgc ctcttccaaa aaggccaaga gagacctcat 780
agataactcc ttcaaccggg acacatttaa tgaggatgag ggggagcttc cggagtgggt 840
tgtgcaagag gaaaagcagc accggatacg acagttgcct gttggtaaga aggaggtgga 900
gcattaccgg aaacgctggc gggaaatcaa tgcacgtccc atcaagaagg tggctgaggc 960
taaggctaga aagaaaagga ggatgctgaa gaggtcgag cagaccagga agaaggcaga 1020
agccgtgggtg aacacagtgg acatctcaga acgagagaaa gtggcacagc tgcgaagtct 1080
ctacaagaag gctgggcttg gcaaggagaa acgccatgtc acctacgttg tagccaaaaa 1140
aggtgtgggg cgcaaagtgc gccggccagc tggagtcaga ggtcatttca aggtgggtgga 1200
ctcaaggatg aagaaggacc aaagagcaca gcaacgtaag gaacaaaaga aaaaacacaa 1260
acggaagtaa gcagagctgc caggctccca ggagagcatg gggactagga ggaagggtgt 1320
ggcatggctc agtctggccc ccttgattac cggcctagcc cctgctcaca tcacagctgt 1380
ctgaagaaca gtgaggtgga gtgcctagaa ctcccgtggt ggtcctgagc agagaggagg 1440
atgtcctect gcctgcctga aggtctccca tgaaaacact gctgaactgt gttgacactc 1500
atgacccttt ttttaaacgg ttaaagggaa gttcgggtgt ggagcgatac tcaatgtagt 1560
cagtctacac ctggacgtgt gggccactta agccctcccc acccccatcc tattcctaaa 1620
taaaaccagg ataattgaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1680
ctcgagggggg tcc 1693

<210> 51
<211> 1685
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1667)
<223> n equals a,t,g, or c
<220>

<221> SITE
 <222> (1668)
 <223> n equals a,t,g, or c

<400> 51

ctgcaggaat	tcggcagcag	tactattata	atggcaatta	aattccaaca	tgagtttttg	60
aggggcccatt	caaaccatag	cagtactgtt	agcctgttag	tcacatggcc	ccaggtcgct	120
gcaagggagg	tggggaatgc	agtcttggct	ctgggcagct	gtgtgctcag	ctggctgtcc	180
ctgcttcttg	gggatgaagg	cattgtgaga	tttttgatta	aatctgggccc	atttccaggc	240
tgaaaagctg	gaccagagct	tcagggtctg	agtctctcac	agagagattt	cccaatgggg	300
acatcagtc	tgccttggga	ccagaaagcc	acatgctgta	ggccaggaag	ggggaagcag	360
gggctgagcc	cgaggagaa	aggctttaga	ggtgttagca	gacagctcag	tggcagtgg	420
tagaattagg	gaggcagcga	cctcttctta	gtgtggctcag	agcatgccaa	gaaagtgtgg	480
tctgtgtctg	ggctgctgag	gcccaggggc	aagggccaa	ctcattcata	ggacagtggc	540
caagaagcgg	ggactgaaag	gcttgggaaa	agtaagggaag	ctctgcaggt	tctgggacac	600
aagtgaacac	ggtaagcagt	ggaaggccca	ccccaggaca	gggttagact	gggagcactg	660
tctccttgta	gccacaaga	ggccaggcag	gggtgggggt	ggaggcttcc	tgcgtcctcc	720
tcacctcatg	cccacccct	gcccctgcacg	tcatgggagg	gggcttgaag	ccaaagaaaa	780
ataacccttt	ggtttttttc	ttctgtattt	ttttttctaa	gagaagtatt	tttctacagt	840
ggttttatac	tgaaggaaaa	acacaagcaa	aaaaaaaaaa	aagcatctat	ctcatctatc	900
tcaatcctaa	tttctcctcc	cttccctttc	cctgcttcca	ggaaactcca	catctgcctt	960
aaaaccaaa	agggcttcc	ctagaagcca	agggaaagg	gtgcttttat	agaggctagc	1020
ttctgctttt	ctgccctggc	tgtctgcccc	accccgggga	ccctgtgaca	tggtgcctga	1080
gaggcaggca	tagaggcttc	tccgccagcc	tctctggag	ggcaggctca	ctgccaggcc	1140
agctcccgag	agggagagag	agagagagag	gacagcttga	gccggggccc	tgggyttggc	1200
ctgctgtgat	tccactacac	ctggctgagg	ttcctctgcc	tgccccgcc	ccagtcccca	1260
cccctgcccc	cagccccggg	gtgagtccat	tctcccaggt	accagctgcg	cttgcttttc	1320
tgtattttat	ttagacaaga	gatgggaatg	aggtgggagg	tggagaagg	gagaagaaag	1380
gtgagtttga	gctgccttcc	ctagcttttag	accctgggtg	ggctctgtgc	agtcactgga	1440
ggttgaagcc	aagtgggggtg	ctgggaggag	ggagagggag	gtcactggaa	aggggagagc	1500
ctgctggcac	ccaccgtgga	ggaggaaggc	aagaggggg	ggaggggtgt	ggcagtgggt	1560
ttggcaaacg	ctaaagagcc	cttgccctcc	catttcccat	ctgcaccct	tctctcctcc	1620
ccaaatcaat	acactagttg	tttctaaaaa	aaaaaaaaaa	aaaaaannaa	aaaaaaaaaa	1680
aaaag						1685

<210> 52
 <211> 1135
 <212> DNA
 <213> Homo sapiens

<400> 52

gctcaaaagt	aggctcttaa	ttctaccagt	gataattata	ccttgcattg	ttagtccatt	60
tactcttttg	ctctcttatg	caactatcgt	acacttctgc	atgcccctaa	taccttttct	120
ccttattctt	actatcaaat	gatgatcttg	cttttcaactt	ttactgtact	aagaaagatg	180
gaagcaatta	gaagagcaca	tttagcacag	tctagccaac	aaatctgact	acctacagcc	240
acctacacct	atgttattct	tgttttccac	cctattacca	taatgacca	tgcgttctac	300
ttacaacaca	ttttcacact	ttgttgggtc	atttcatcaa	catagaaawa	cattgttact	360
tctctcatct	tagaagaaaa	tcttctcttg	atccaaacctc	ctccgtaagt	tactttccca	420
tttctttatt	tccctttgaa	gcgaaacttt	tcaaagagtc	atctccattt	ctccgacttg	480
gtcttctccc	attctctggt	aagccccatt	cagtcaggat	tttgtccctg	tctctctgca	540
tgcgcacaca	gcaggttta	gcctaaaaaa	gctctcgaaa	aagagcaatg	gtaagaggga	600
ctggcactgc	tgatgtgtaa	aatacttagt	aaagttatgg	tagtttttat	tttatttttt	660
tagaatttaa	tagatacttc	acagttcaaa	atatcagaaa	gataaatatg	aagatatcac	720
agaccttttc	tcaccatttt	tattttttat	ttgtcctttt	ttcaaatgta	gatgtttttc	780
tcccttattt	cacaacagta	aactataatg	attaaaacca	tgtagtatag	gttcagaaat	840
acataggcaa	agcagtgggt	aaatagcctc	aacaaacata	aagatacatg	aggacttggt	900
agatgataaa	gatgacatct	caaattgggtg	ggaaattgggt	gggaaatagg	tggtagtgc	960
ataactgggt	agctgtctat	ggggcaaatc	tttaatatgt	cactctttag	accaaaatta	1020
ataccaggag	gattaaagac	ttcattgggg	gcagggcaaa	gtgctgggat	tacaggcatg	1080
aaccactgca	cccagcctat	ttctctctct	taaaaaaa	aaaaaaaaac	tcgta	1135

<210> 53
 <211> 3208
 <212> DNA
 <213> Homo sapiens

<400> 53

ggagagtatg	aggcgagctc	cggccccgggt	gcggccgggc	ttcagggggc	caggcgccgc	60
tgctgccacc	gccatctaac	gctgcgccct	ggaggcccg	cgcgcgatg	gtgccgggtgc	120
ggctcgggtg	ttgaaacggg	tgtgccctcc	ccctcctccc	ctccccacg	cggtgggtctc	180
ccctccacc	cggctcaggc	agagccatgt	ctcgggggtg	ctcctacca	cacctgttgt	240
gggacgtgag	gaaaagggtcc	ctcgggctgg	aggaccgctc	ccggctgcgg	agtcgctacc	300
tgggaagaag	agaatttatc	caaagattaa	aacttgaagc	aacccttaat	gtgcatgatg	360
gttggtgtaa	tacaatctgt	tggaaatgaca	ctggagaata	tattttatct	ggctcagatg	420
acaccaaatt	agtaattagt	aatccttaca	gcagaaagg	tttgacaaca	attcgttcag	480
ggcaccgagc	aaacatattt	agtgc aaagt	tcttaccttg	tacaaatgat	aaacagattg	540
tatcctgtct	tggagatgga	gtaatatattt	ataccaacgt	tgagcaagat	gcagaaacca	600
acagacaatg	cccaatttac	gtgtcattat	ggaactactt	atgagattat	gactgtacct	660
aatgaccctt	acacttttct	ctcttgtggt	gaagatggaa	ctgttaggtg	gtttgatata	720
cgcatacaaaa	ctagctgcac	aaaagaagat	tgtaaagatg	atattttaat	taactgtcga	780
cgtgctgcca	cgtctgttgc	tatttgccca	ccaataccat	attaccttgc	tggtgggttgt	840
tctgacagct	cagtacgaat	atatgatcgg	cgaatgctgg	gcacaagagc	tacaggggaat	900
tatgcaggtc	gagggactac	tggaaatgggt	gcccgtttta	ttccttccca	tcttaataat	960
aagtccctgca	gagtgcacatc	tctgtgttac	agtgaagatg	gtcaagagat	tctcgttagt	1020
tactcttcag	attacatata	tctttttgac	ccgaaagatg	atacagcacg	agaacttaaa	1080
actccttctg	cggagagagag	aagagaagag	ttgcgacaac	caccagttaa	gcgtttgaga	1140
cttcgtggtg	attggtcaga	tactggacct	agagcaaggc	cggagagtga	acgagaacga	1200
gatggagagc	agagtcacca	tgtgtcattg	atgcagagaa	tgtctgatat	gttatcaaga	1260
tggtttgaag	aagcaagtga	ggttgcacaa	agcaatagag	gacgaggaag	atctcgacct	1320
agaggtggaa	caagtcaatc	agatatattca	actcttctta	cggtcccatc	aagtcctgat	1380
ttggaagtga	gtgaaactgc	aatggaagta	gatactccag	ctgaacaatt	tcttcagcct	1440
tctacatcct	ctacaatgtc	agctcaggct	cattcgacat	catctccac	agaaagccct	1500
cattctactc	ctttgctatc	ttctccagat	agtgaacaaa	ggcagtctgt	tgaggcatct	1560
ggacaccaca	cacatcatca	gtctgataac	aataatgaaa	agctgagccc	caaaccaggg	1620
acaggtgaac	cagttttaag	tttgactact	agcacagaag	gaacaactac	aagcacata	1680
aaactgaact	ttacagatga	atggagcagt	atagcatcaa	gttctagagg	aattgggagc	1740
cattgcaaat	ctgagggtca	ggaggaatct	ttcgtccac	agagctcagt	gcaaccacca	1800
gaaggagaca	gtgaaacaaa	agctcctgaa	gaatcatcag	aggatgtgac	aaaatatcag	1860
gaaggagtat	ctgcagaaaa	cccagttgag	aaccatatca	atataacaca	atcagataag	1920
ttcacagcca	agccattgga	ttccaactca	ggagaaagaa	atgacctcaa	tcatgatcgc	1980
tcttgtgggg	ttccagaaga	atctgcttca	tctgaaaaag	ccaaggaacc	agaaacttca	2040
gatcagacta	gcactgagag	tgctaccaat	gaaaaataca	ccaatcctga	gcctcagttc	2100
caaacagaag	ccactgggccc	ttcagctcat	gaagaaacat	ccaccaggga	ctctgctctt	2160
caggacacag	atgacagtga	tgatgacctc	gtcctgatcc	caggtgcaag	gtatcgagca	2220
ggacctggtg	atagacgtct	tgctgttgcc	cgtatttcagg	agttcttcag	acgggaaaaa	2280
gaaaggaaaag	aaatggaaga	attggatact	ttgaacatta	gaaggccgct	agtaaaaaatg	2340
gtttataaaag	gccatcgcaa	ctccaggaca	atgataaaaag	aagccaattt	ctgggggtgct	2400
aacttttgtaa	tgagtgggttc	tgactgtggc	cacattttca	tctgggatcg	gcacactgct	2460
gagcatttga	tgcttctgga	agctgataat	catgtggtaa	actgcctgca	gccacatccg	2520
tttgacccaa	ttttagcctc	atctggcata	gattatgaca	taaagatctg	gtcaccatta	2580
gaagagtcaa	ggattttttaa	ccgaaaactt	gctgatgaag	ttataactcg	aaacgaactc	2640
atgctggaag	aaactagaaa	caccattaca	gttccagcct	ctttcatgtt	gaggatgttg	2700
gcttcactta	atcatatccg	agctgaccgg	ttggagggtg	acagatcaga	aggctctggg	2760
caagagaatg	aaaatgagga	tgaggaataa	taaactcttt	ttggcaagca	cttaaatgtt	2820
ctgaaatttg	tataagacat	ttattatatt	tttttcttta	cagagcttta	gtgcaatttt	2880
aagggttatgg	tttttgaggt	ttttcccttt	ttttgggata	acctaacatt	ggtttggaat	2940
gattgtgtgc	atgaatttgg	gagattgtat	aaaacaaaac	tagcagaatg	tttttaaaac	3000
tttttgccgt	gtatgaggag	tgctagaaaa	tgcaaaagtgc	aatattttcc	ctaaccttca	3060
aatgtgggag	cttgatcaa	tgttgaagaa	taattttcat	catagtgaaa	atgttggttc	3120
aaataaattt	ctacacttgc	catttgcattg	tttgttgctt	tctaattaaa	gaaactgggt	3180
gttttaagat	aaaaaaaaaa	aaaaaaaaaa				3208

0995082 091201

<210> 54
 <211> 2325
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (51)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2323)
 <223> n equals a,t,g, or c

<400> 54
 ggccaacggc ttcctggccc tggacgtggc tgccaatcgg ctgtgggtga ntcccgggga 60
 gcgggagccc gccgtggcgc cggactttgt gcccttcgtg cagctgcgcc cgctgagcgc 120
 gctgggtgaa gctggagagg cgggtgctgt gctgcgggag gggcttctgc gccgcgtgcg 180
 ttgcctgcag ctgggggtccc cagggtcctgg ccccggtggc gccggccccg ggscgcctc 240
 cgtctctggc cttgccgcgg ggtccggccg cgactgcgtg ctgctgcaag aggactttct 300
 ggcgcacagg ggccgacccc acgtctacct gcagcgcac cagctcaaca accccacgga 360
 gcgctgggcc gcgctgcaga ctgtggggcc cactgccggc ccagcccccagggccttcac 420
 cagtacctg gagaaggctg gagaccatca gttcctcctc tactcaggcc ggtccccgcc 480
 tacgcccact gggttgggtg acctggtggt ggtggccgcc aagaagctgg tgaaccgcct 540
 ccaagtggct cccaagacgc agctggatga gacggtgctg tgggtgggtg acgtctcttg 600
 ccccattaac cccaggtgc tcaaaagcaa agcagccaa gagctcaagg cgctgcagga 660
 cttggcacgg aaggaaatgc tggagctctt ggacatgcca gcggcggagc tgcttcaaga 720
 ccaccagctc ctctgggctc agctcttcag cccaggagtg gaaatgaaga agatcactga 780
 caccacacg ccgtctggcc tcaccgtgaa cctgacgctc tattacatgc tctcctgctc 840
 gccagcccca ctgctcagcc cctccctgag ccacagggag cgagaccaga tggagtcgac 900
 gctcaactat gaagatcact gcttcagcgg gcacgccacc atgcacgccg agaacctgtg 960
 gccggggcgg ctgtcctcgg tccagcagat cctgcagctc tctgacctgt ggaggctgac 1020
 cctccagaag catggcccag caggacccc ggctgccctt cctcttctgg ttcagcgtgg 1080
 cctccctaata caccctcttc caccctcttc tcttcaagct cagctttggg gggctgcagt 1140
 tcacagagaa ccacctccag ttccaggccg accccgacgt gctgcacaac agctatgcat 1200
 tgcatggcat ccgctacaag aacgaccata tcaacctggc cgtgctggcg gatgccgagg 1260
 gcaagcccta cctacacgtg tccgtggagt cccgtggcca gcctgtcaag atctatgcct 1320
 gcaagcaggc tgcctggacg agccagtga gctgacctcg gcgcccacgg gccacacctt 1380
 ctcggtcatg gtgacacagc ccatcacgcc actgctctac atctccaccg acctcacaca 1440
 cctgcaggac ctgcggcaca cgctgcacct caaggccatc ctggcccatg atgagcacat 1500
 ggcccagcag gagtaaggaa gatcccagt tctgagtga ctaacagtcc tgctttcagc 1560
 caccatttgc acaagacacc cagcactgaa agtcccgtg ccaggagcaa gggatccttt 1620
 ggaagcaccc gccctttgtg ccttgttggg ggaaaccggt gacgcagaag tgagtgtgga 1680
 tacaccagag tttgcattgg aagggaatgag tgtcacgtgg ggaggggaagg ggccagtgga 1740
 ccttttgttaa gctttccact caataaaatg aacctgtatg gcaaatactt gaaatggaac 1800
 tcaactcttc cactttcccc ctttcttctg tcccaggaaa tagatcatct tttgaaaaga 1860
 ctcttgtcta ggaaaagttg tgtccttttc ctaatttaac gtgttctttc ttaatgaagt 1920
 ttttaatttat ttttgttgag attttgctag atggcttttg catccccctgt agatgggtgag 1980
 tgttggcggg gatgtccrte tgggcgttcg gagggccccc ggtccccagg ctggggccggg 2040
 gccccccagg gtggctgtgc tgcctgctgt aggagggtgc gggttgtgct gtcactctcg 2100
 ggtttgacag ccctttttta ggagcctgtg gacatctgtg gttttgtact ttggggccttc 2160
 aggggagggt ttttaactttc tagtgattga tgattgtcag gttttgaaat accaaagctt 2220
 ttttgttctg tttttaaata aatatctttc aaactttmaa aaaaaaaaaa aaaaaactcg 2280
 aggggggggcc cggtacccaa ttcgccctat agtgaggggg tantc 2325

<210> 55
 <211> 637
 <212> DNA
 <213> Homo sapiens

095008-09101

<400> 55
 agtccacttt ctgaagtttc agttatggtc aacagtggtc caaaaatatt aaatggaaaa 60
 cttcagaaat aaacagttca taagttttta attacatgct ttctgagtag catgatgaaa 120
 tcttgtttca acctgcttgg gacatgaatt atccctttgt ccatcatatg cacgttgtat 180
 atgttactca cccgatagtc acttagcagc tgtcttgatt attaggttga ctctcgtggg 240
 attgcagtgc ttgtgttcag ttcaataaag ttaaggttca ataaagttaa aataaagggt 300
 caataaagtt aaccttttatt ttacgtaatg accctagggc acaagaatag tgatgatggc 360
 atattgtcat gatttttttt attatttaat atcttattgt gcctaattta caaattagac 420
 tttctcatag gtgtgtatat ttaggaaaaa acatagtacg tgtaagggtc agtactatct 480
 gcggtttcag gcatccactg gggttctggg aacatattcc ctgtggataa agggggacta 540
 ctatagtga tttctatttt cccttgata tgcagtttct tttgaatgcc tcagtccttg 600
 atgtttggct cctaaaaaaa aaaaaaaaaa actcgta 637

<210> 56
 <211> 750
 <212> DNA
 <213> Homo sapiens

<400> 56
 ggcacgagtt tcaacatgag actaatccag ggtggtgaca tgccgggtctt tgtagttctt 60
 gcttcggggg taatgagggg caggaaagag ttcttagac tcctgcatgg catcatgaat 120
 gctgctgttc ttcttacctt gggttttttc ctctctctct accttttcta ccttggtgtg 180
 ctgggatcag atcctgctta tcttccactt cttaagaaaa gctgacatag aagacacatt 240
 gggactataa cagggtctggg tctctctctt cactcccact agacacatgc tgcagtacat 300
 cagagagttt gtcaccagtt aagcaggctc ctcggaagtc cccctccgac actgaggggc 360
 ttgtaaagag tctgccttct ggatctcacc agggcccagt catatatgca cagttagacc 420
 actccggcgg acatcacagt gacaagatta acaagtcaga gtctgtgggtg tatgcgata 480
 tccgaaagaa ttaagagaat acctagaaca tatctcagc aagaaacaaa accaaactgg 540
 actctcgtgc agaaaatgta gccattacc acatgtagcc ttggagacc aggcaaggac 600
 aagtacacgt gtactcacag agggagagaa agatgtgtac aaaggatatg tataaatatt 660
 ctatttagtc atcctgatat gaggagccag tgttgcatga tgaaaagatg gtatgattct 720
 acatatgtaa aaaaaaaaaa aaaaaaaaaa 750

<210> 57
 <211> 543
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (529)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (533)
 <223> n equals a,t,g, or c

<400> 57
 ggcagagcga tcctcccagc aaccacaaag gaagcttcac agagaggcag atgccacaca 60
 ggccaccac ccagatgcag agccagattc cctgcgtgga ctggacggga gtttcccagc 120
 tggagttctc tcggccaagc tgccctgtgac atgggggttg aggtgctcca gagagtcag 180
 gccacccttg gaggaagtga cttgtggctg actgctcaag gggaagtcct gtggcagtg 240
 agtcgtcagc attaatcaaa ataagatctc tcctgcaca caatctgctt tctgttctc 300
 gatggattga atcaagagtg aatgagctcc tacttcgcga aagcaaaaaca aactaaacgc 360
 atcaaccacg accgcagagc ccccatctct cccaggaggg tgagcccatg ttgtgttttc 420
 atttgtcaga aatctatctt aggaagccat tcctgagatc tgttctaatt taggccattt 480
 ttaaaaaaaa taatgcagtt gaaaaaaaaa aaaaaaaaaa tctagggng ggnccggtac 540
 cca 543

<210> 58

00550002-00000000

<211> 637
 <212> DNA
 <213> Homo sapiens

<400> 58
 ggcacgagcg cgatgtaaca cgagaaagca cataccaagg ccaccacaca ccacctgtcc 60
 aaaaaggcct tcgatacggg ataatecctat ttattacctc agaagttttt ttcttcgcag 120
 gattttttctg agcctttttac cactccagcc tagcccttac cccccaatta ggagggcact 180
 ggcccccaac aggcattcacc ccgctaaatc ccctagaagt cccactccta aacacatccg 240
 tattactcgc atcaggagta tcaatcacct gagctcacca tagtctaata gaaaacaacc 300
 gaaaccaaat aattcaagca ctgctcatta caattttact gggctctctat ttaccctcc 360
 tacaagcctc agagtacttc gagtctccct tcaccatttc cgacggcatc tacgggtcaa 420
 cattttttgt agccacaggc ttccacggac ttcacgtcat tattgggtca actttcctca 480
 ctatctgctt catccgcaa ctaatatctt actttacatc caaacatcac tttgggttcg 540
 aagccgccc ctgatactgg cattttgttag atgtgggttg actattttctg tatgtctcca 600
 tctattgatg agggctctaa aaaaaaaaaa aaaaaaa 637

<210> 59
 <211> 1629
 <212> DNA
 <213> Homo sapiens

<400> 59
 ggcacgagaa gaaaatgatt tggatgattc ttttaagtga aaaaatgggtg atagtagtaa 60
 tgactttgtg acttgcaatg atatcaatga agatgatttt ggtgattttg gtgacttttg 120
 ctctgccagt ggctcaactc caccttttgt tactgggtact caagattcaa tgagtgatgc 180
 cacttttgaa gagtcttcag agcactttcc acatttttagt gaaccagggtg atgacttttg 240
 agaattttggg gatataaatg ctgtttcttg ccaagaggag acaatattaa caaagtcaga 300
 cctaaaacag acttctgata atttatcaga agaattgtcaa ttggcaagaa aatctagtgg 360
 aacaggcact gaacctgttg caaaacttaa aaatgggcaa gaagggtgaga ttggacattt 420
 tgattctgtg ccaaatattc aggatgactg caatgggttt caagactctg atgattttgc 480
 agacttcagt tcagctgggtc ctageccaagt ttagatattg aatgcttttg aggatgaaca 540
 aaaagatagt tgttcttggg ctgcttttgg agaccagcag gctactgaat ctcactcctg 600
 aaaggaagcc tggcagtcac ataggacaga tgaaaatatt gatactccag gaaccccaa 660
 aacgcacagt gtaccttcag caacttccaa aggagcagtt gctagtggcc atttacagga 720
 atcagccact tcagttcaga cagctttatt aaaccgcctg gagcgaattt tcgaagcatg 780
 ttttccttcc atacttgctc ctgatgctga agaggaagtt acttccctga agcacttgct 840
 ggaaacaagc actttgcaa taaaaacgag agaggcctta cctgaaagtg gggaattgct 900
 agatgtgtgg actgagctac aggatatcca tgatgcacat ggcttgagat accagtgggg 960
 cggctcccat agcaacaaga agcttttgtc ctccctggga atagacaccc gaaacattct 1020
 cttcacgggc aataagaagc agcctgttat agtggccatg tatgcagcag gattgggtat 1080
 gttagagccc accaaggaac cactgaaacc actttctgct gcagaaaaaa tagcttccat 1140
 cggtcagaca gccaccatgt caccagatat gaacacatgt acatctgac agttccagga 1200
 gtctctacca cccgtccagt ttgactggag tagcagtggc cttactaacc ctttagatgg 1260
 tgtggatccg gagttgtatg agttaacaac ttctaagctg gaaatctcca cctcaagcct 1320
 caaagtgact gatgcatttg caagactcat gtctacagta gagaagacaa gcacatctac 1380
 caggaaaccg aaaagagaag agcacctaag tgaagaagct atcaagggtg tcgctggcct 1440
 tcctgactta acattcatgc atgccaaggt gttgatgttc ccagccacgt taacaccttc 1500
 cacaagctct caagaaaaag cagacggata actgatgtga attggacagt ttctattgct 1560
 tttccttttt tccatccctt ccctaccatc aaaagcatat ctgctctaata taaaaaaaaa 1620
 aaaaaaaaaa 1629

<210> 60
 <211> 1076
 <212> DNA
 <213> Homo sapiens

<400> 60
 ggcacgagtc ctgaccttgt gatccacca cctcggcctc ccgaagtgtt gggattgcag 60
 gcctgagcca ccacgcccag cctattttgt gtttttttaa agctaactac cattaagatc 120
 attatagaag tttggataaa tgaagatttg gggttttcag tccaatgagt ttccatattc 180

ttgaatgaaa	aagatccaca	tttcatcatt	tgccctgtttc	atctttctttt	agtacttttg	240
aacttagttt	ggtcagaaaa	tactagaatt	ttagtttgat	ctaaagaacc	agcttatata	300
acttgctgtt	gccatgtaca	ttgtatgtct	ttgctgtgtc	aaataactgg	atcgatttta	360
gctcttttaa	gtggtgaaag	caatgcattt	tattcttcaa	attcagacat	tgaatgtgta	420
taaaatgtgt	gtgcttacct	ttaatcctct	ccccaccgac	aattaggaac	acgtttctcc	480
aattactgtt	ggcaagacta	ccaagaaaaa	ttgttgaatt	agaatcccag	caccgggcac	540
ggtggctcac	gcctgtgatc	ctagcacttt	gggaggccaa	agcaggcgga	tcacctgagg	600
tcaggagttc	gagaccagca	gggccaacat	ggcgaaaccc	cgactctact	aaaaatacaa	660
aaattagcca	ggcatgggtg	tgggcgcctg	taatcccaac	tactcaggag	gctgaggcag	720
gagaattgct	tgaacctggg	agttggaggt	cacggtgagc	tgatatcaca	ccattgcact	780
ccagcctggg	caacagagca	agactctgtc	tcaatcaatc	tatccatcaa	tcgataagaa	840
ccccagattg	tatagctaca	tgttttagcc	cccttttcaa	agtatatgtt	ctccttggtg	900
cttattttga	cattctgact	tttctacata	tgctttatca	acctcttaat	taaaccatca	960
ttgtctatct	tgagagataa	ctgcgcgtgt	tcccgttggt	tgttttaaat	gttattgttc	1020
agtttgagtc	aaataaaaagg	atattttaatc	tgtgaaaaaa	aaaaaaaaaa	aaaaaa	1076

<210> 61
 <211> 1652
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1500)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1527)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1546)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1614)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1640)
 <223> n equals a,t,g, or c

<400> 61						
tcgacccacg	cgtccggatt	gttctgtttt	tctcacccta	ctatgtgaat	atatattctg	60
ttagagatgg	gctgttatct	gcaatgtgga	ctcaatacca	tgggcttgag	tttggttagt	120
tcatcattag	agattttttt	tcagcagttg	gtttacttta	tgagaaagga	tcatgagttt	180
aattttccca	ctgatatatt	tgtgtttctc	ttgctgagat	ataagtttct	taatgatttg	240
ttaccttttt	ctatttttct	agactagtat	taaaattttg	atggcatatg	ggtttggttc	300
cacttgtaga	gaataaatgt	tcacaactta	ctgggtattag	cacacacaca	tcacatgcag	360
aaatgggtgt	ttcttgccac	ttactctttc	tcataagatg	cttatattcc	tgtgggcatt	420
tgtcttccac	actacagcac	ataatttgat	gaaactgatt	ttctgtgcaa	gagcttgtgt	480
ttctccaact	ctgggtttta	tggaccactt	ttcattggta	tataggaggc	ggttaaaacg	540
tggtggtaga	atgcaggttt	taggttagct	gggtgtgaag	aatcccaggt	ctttgggata	600
gtcttggtg	gttactcaac	tcctctaagt	tagtttcttg	atctgtcaga	tgmccagtaa	660
cctcagagtt	gtgaaaatta	aatggatata	atgtgtgtaa	agcacttagc	ataatgcttt	720
atacatcgta	aaactttcaa	aaataggagt	agtaattatt	acaaagaaat	gtgaagaaga	780
gtcctagtgg	gctgcagtgt	aaaaatagtt	tttagttaat	gaaaatttaa	tcacatctta	840

gatgtttatc	atctgcatgg	tacttttctg	gttgctgctt	taacctttgt	atagttgaaa	900
gtctgtaaac	tttctagtat	tctttgattt	ctggcccat	tccctcctac	cattcacgct	960
tatatTTTT	ggttcaagtc	accattccct	gcaaaactaa	ttaaatacat	tcctaaatac	1020
ataatattgc	caatattcat	tcacatccac	cacgtctaga	tccaagtctt	catcttcttt	1080
atgctggctc	aatttttgc	gagccttaga	agcaaagaca	gactccgggg	gttgatatgg	1140
gacctccaga	atggggattg	cacagaataa	tcttattttt	cctctattct	tctagtctgt	1200
tatgttctga	accacacat	gttttcggaa	ggaccagatg	gctgacactg	gctaattggga	1260
accaaagac	gagtgaaggt	aacctgggtg	tcacataccc	ccagcttaga	ggtgcttcac	1320
cctgccccaa	ggtcaatttc	ttttttctct	agagacttta	ccccattata	tcaaaaacct	1380
ttactacagc	ctgactttat	ctgatgttag	agtatcatta	agtcaagcag	cagcatttat	1440
tgagtgaaaa	aagattgtca	caggactgga	agagaagcat	ctgcctttaa	aatacagtan	1500
aaggccggca	tggtggctca	tgcctgnaat	tctagcactt	tgggangcca	agcaagtgga	1560
ttggctgagc	tcaggagttc	gagacaccct	gggcaacatg	gggaaaacct	gctntctaaa	1620
aaaaaaaaaa	aaaaaactcn	ggggggggccc	gg			1652

<210> 62

<211> 1639

<212> DNA

<213> Homo sapiens

<400> 62

ggcacgagct	gaaaatggat	actgcttttag	tgatgtctgc	tttattcgta	aaatgcttat	60
ttcttttgc	agatgtaaag	atttgggtgt	aacaaaagt	gttttaatat	gtaaaatatga	120
atgaatgcct	ttagtttacc	ctggttgcct	attattaatc	tgttttcatt	tatccttcac	180
agaggaggat	cctttcatga	tcttgaatac	atttcattag	atattgttgc	attttaagaa	240
tgaaaatata	actgttttct	gtcttagatt	aatcctgctg	ctatgagaaa	ctgaaaatca	300
agaatgtgat	gcacttttta	cattactata	taccatacat	ataccatagg	ttgctttgat	360
acctttcctg	tagcacagcc	actaacaaga	gtgaatgaat	tataaaattc	tttttgggag	420
ggaatcaata	caagtaacta	attccttagct	gatattgtcc	tatgaaggac	aataacttag	480
gaatataaga	attctgttaa	tagtacactt	tttggcctta	aatgtcttct	actactgaaa	540
atagttttaa	tcttagcttt	gtttctatta	ttccctctct	ctgcctcaga	aagaggaatt	600
gggaagaatg	gtttaaagga	cgtgggtgtc	ttgatttgtt	gctgatcttt	tagaaaacat	660
ttgtctatgt	aagctgggga	cttatttttt	gtttgtatat	agaggggaaa	tagtgctgcc	720
ctgaaccaat	cagatttagt	ttaaatacaa	tcaatcaaaa	ctccagctgt	ttctcttgtc	780
tttttactta	gcaaaggaaa	acttttagtga	atgctacttg	acaagaagaa	aagtcatttc	840
tcaagcacat	acccaaactt	gaagtgattg	aacccaaaat	aatgggtggg	aaacaccaa	900
tgagtggaga	atgagaaaga	tgtgtggggc	aaagctatct	ggttatat	tgatgttgcc	960
aatatcgcaa	agccaaaatt	ttaatttgct	tatttaatat	atttgttggc	cagagatcta	1020
tttttatatc	aatgtttgct	tgcattgtata	ttaaaaaaa	aaaatttgaa	acgcccattg	1080
agtaatgcct	gagatagtcg	atgggtccct	accacctcac	taatttttat	gcagtatgaa	1140
agctcattct	attgccccaa	ctgggtgctct	ctgtttaaag	ttacagatct	tgcgaaactg	1200
gaactatttt	ataagctggg	gaagtgatct	acttttttgg	ttgtatcttt	tttgttctta	1260
gtctgttagt	ggctgtcctg	tagtgggaaa	tagtaaaagt	attcttcact	cccttctccc	1320
ctcagcacct	tcttcaagta	aacatttctt	gtgtgctttg	aaaaaagttt	cagcttgctg	1380
tctcttttag	tgttttaaag	aagtgttata	caaagcattg	tttgcaaaat	atagggagat	1440
aatgtagtcc	actttaattt	ggaattctgt	gtgagctatg	atccaagtta	tcagctcttt	1500
ccaactttta	aaattttgtt	aaaagcacct	tgccttagaaa	attttaaata	tttatgtctg	1560
caacaattgt	ctcaaaaata	taaactgtgc	aattcttgtc	attaaaaaaa	aaaaagatct	1620
gaaaaaaaaa	aaaaaaaaaa					1639

<210> 63

<211> 1308

<212> DNA

<213> Homo sapiens

<400> 63

gaaattaacc	ctcactaaag	ggaacaaaag	ctggagctcc	accgcggtgg	cggccgctct	60
agaactagtg	gatcccccg	gctgcaggaa	ttcggcacga	ggatgaatgg	tttgacata	120
ttttctccca	ttctgtaatg	tgtttctttg	tttattgttt	ctttggctgt	gcagaagctt	180
tttctattgc	tgtaactctc	tttttcygtc	tttgcttttc	ttacttgtgc	ttttggagtc	240
atatccaaaa	aatcattgct	cagtccaaag	tcaagaaact	tttccttaca	ttttcttttag	300

tagctttata	atattagggtc	ttacgtgtaa	gtctttaatc	cagtttgagt	tgatttttgt	360
atatgggtgtg	agataaggggt	ctaatatcat	tcttctttat	gtggatatcc	agtttttcag	420
acatcatttta	ttgaagagac	tggtctttct	ccattgtgtg	ttattggcat	ctttgtcaaa	480
tatcaattga	ccataaatgc	atgggtttatt	tctgggctct	ctggtgttcc	actgggtctgt	540
ctgttttcgt	gtcagtagca	tgctgttttt	attactatag	attttagtagta	tattttgaag	600
tcaggtggag	tgtgacgctt	ccaggtttgt	tcatttttgc	caagattgct	ttgactattt	660
ggggtctttt	gtgggtccat	tcaaattgaa	ggattgtttc	ttctatttct	gtgcgaagtg	720
tcattgagaat	tttgatagggt	attgcattga	atctgtagat	tgctttggct	agtatggaca	780
ttttaacagt	gttaattctt	caaattcatg	aatgaacatg	ggatatctat	ccatttatct	840
atgactaatt	tctttcatca	gtgttttcag	tataaagggtc	ttttatctcc	ttgggttaa	900
ttattactaa	gtcttttttt	taagctattg	ttaatgggat	tgctttcttg	atttctgttt	960
tggatagggt	gttggtatta	tgtaagtttt	aaagatgaag	aaagtgaggc	caggtgcagt	1020
gctcacgcct	gtaatcccag	cagtttgagg	ggccgaagcg	ggtgaatcac	ccgaggtcag	1080
gagttcaaga	ccagcctggc	caacatgggt	aaaccctgtc	tccactaaaa	atacagaaat	1140
tgccagatat	gttagcacat	gcctgtagtc	ccagctactt	gggaggctga	ggcaggagaa	1200
tcacttgaac	ccgggagggt	gaggttgcag	tgagccgaga	tggtgccact	gcactccatg	1260
ctgagcgaca	gagttagact	ccgtcttaaa	aaaaaaaaaa	aaaaaaaaaa		1308

<210> 64

<211> 1891

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1164)

<223> n equals a,t,g, or c

<400> 64

ggcacgagca	tgaatgtact	gcaaggggaa	acatttgtgt	catgtgaaga	gacatgacaa	60
aaacagccct	ccttaaatga	tttgtggcaa	tagtgatcac	attcatttta	attttgccgg	120
aatattttcaa	gacaccgaaa	gaaagaacat	tgagagctatc	atgtctggaa	gtgtgtttgc	180
aatctaattt	tacctattca	ctctcctcct	taaatttttc	ttttgtgact	tttctgcaac	240
cagtaaggga	aactcagatt	atcatgagaa	tctttctaaa	tccctccaat	tttcgtaact	300
tcaccaggac	ttgccaaagc	atcacagggtg	aattttaaat	gtgctcctcg	tgtttggttt	360
gtgagtctaa	aggaaacatg	gatttttattt	ctcaggaaca	aacatcaaaa	gttcttatca	420
ggagaggatc	aatggaagtg	aaagcaaagt	attttcatct	accttgtcag	cactttaact	480
tcagtgtagc	tctcttggtt	gaccacttgg	aggaatataa	cactacctgt	catctaaaaa	540
accacactgg	aagatcaaca	atcatggagg	atgagccaag	caaggagaaa	tcgataaact	600
acacttgtag	aatcatggaa	tacccgaatg	attgtatata	catttctttg	cacctggaga	660
tggatataaa	aaatatcact	tgttccatga	agatcacttg	gtatatttta	gttctattag	720
tttttatatt	tttgatcatc	ctcactatcc	gcaaaatact	tgaaggccag	agaagagtgc	780
aaaaagtggc	gagtcataga	gacaaacctc	catctgttct	cttaagagga	agtgattcgg	840
agaaactgag	agcattgaat	gtgcagggtt	tttcagcaga	gaccacgcag	aggctgcctt	900
tggatcaagt	ccaggaagtg	cttcccccaa	ttccagaact	ataagttact	tccacagtgc	960
atcagtgaga	tcaatatata	cgaatatccc	cgggcaagtt	ggaccgagcc	ctttgaagaa	1020
tactcagaag	tttattttgt	gaatgagtag	actggaaaat	gtttgtgtcc	agctgaggat	1080
gcacagttgg	aaagcaggag	gaatgctgac	tggttgatga	aaactagctt	aagagcattc	1140
attcgctcca	tgagatcaag	ggancaaagag	tgtttgcaag	aagccattat	gagtcattga	1200
aaaaaagatg	atgaaaccca	tggaaacacg	aagagaattc	ccactctctc	tcttcttaaa	1260
aaaaatctat	cattatacag	cacagagtgg	agccaatttt	ttaattttga	ggaacccaaa	1320
acaggatcaa	atatgaaaac	cctttctttt	attgggccac	attgtagatg	ctgatttgat	1380
aattgtttcc	tatgcagata	gattattttt	atttcacaga	ttatttataa	gggaagaggg	1440
cctggttggt	tattttatat	tttggttgca	tttatgaatc	ttgctgcctt	ttagcaccag	1500
gatgttttta	aaaaaattca	aagaggccag	gcgcagtggc	tcatgcctgt	aatcccagca	1560
ctttgggatt	ctgaggtggg	aggatcatga	ggtcaaggga	tcgagaccat	cctggccaac	1620
atggtgaaac	cctgtctcta	ctaaaaacac	aaaaattagc	tgggtgtggt	ggtgcgcgcc	1680
tgtagtccca	gctcctcagg	aggctgaggc	aggagaatca	cttgaacctg	gcaggcagag	1740
tttgagtgta	accaagatca	cgccactgca	ttacagcctg	gtgcagagca	agactctgtc	1800
tcaaaaaaaaa	aaaaaaaaaa	aaatcaaaga	taccaataaa	acgaatttaa	ataaaatact	1860
taagtacttt	aataaaaaaa	aaaaaaaaaa	a			1891

T0260-280566

<210> 65
 <211> 726
 <212> DNA
 <213> Homo sapiens

<400> 65
 ggcacgaggg atgacaaagc tcatgaatcg gcttttaaga actgtttcca tgttgagta 60
 tttcatcaac cggagttggg aatggagcac gtacaataca gaaatgctga tgtctgagct 120
 gagtcctgaa gaccagagag tattcaactt tgacgtgcgc cagttgaact ggttggaata 180
 cattgaaaat tatgttttgg gagttaaaaa atacttattg aaagaggata tggctgggat 240
 cccaaaagca aagcaacgct taaaaaggct ccgaaatatt cactacctct ttaatactgc 300
 cctcttcctt atcgccctggc gccttctcat tgcaagatct cagatggctc ggaatgtctg 360
 gttcttcatt gtaagcttct gttataaatt cctctcctac tttagagcat ccagcacgct 420
 caaagttaa gagcatttag ccacgcgttt ttatctggaa cctctcagat acctctaaaa 480
 cagcaaatg tgattctcaa gattagaaag taacaaggaa tatgcccaa ctgtcaaatg 540
 tcacctgtta tgtattcgct cctattcctt aactatgtat ttttatttca gtgagagaag 600
 gaaagtgtga aactagccca tagtcaccta tattttaggg aaaaaaatcc aaattgtttc 660
 ctaacattct attttatgcc cttgcgtatt aaacgtgaaa gtactcccaa aaaaaaaaaa 720
 aaaaaa 726

<210> 66
 <211> 1118
 <212> DNA
 <213> Homo sapiens

<400> 66
 ggcacgagag ggttctgacc tgggtggatg acggggcaaat ggtcctgaac tctctgctgt 60
 ctctctcctt aatgtcctct gtctgttcta agctgagatg ttagatagac cttcagggat 120
 ccctgacaaa gaggcattct gtcttaactg cttgcttcta gtggccatgt gctcattact 180
 ttcttcactt cattgagact gccccatgtg ctagagagggt ctcttccatg ttgggaaatg 240
 cctctgccct catctgggca gttctgatct gtgttcatgg gttatttttc ccattgtcag 300
 ggtgaggcat tcactctttg ggggaagtga gaagctcatc acagacgagt ttgtgaagca 360
 gaagtacctg gagtacaaga ggggccctaa cagcagacca cctgaatatg agttcttctg 420
 gggcttgctg tcctaccacg agactagcaa gatgaaagtc ctcaagtttg catgcagggt 480
 gcagaagaaa gacccaagc actgggctgt gcagtaccgc gaggcagtgg agatggaagt 540
 ccaagctgca gctgtggctg tggctgaggc tgaagccagg gctgagtggg tccaacacca 600
 gcaactggctt tactggcgaa cccagcacca gcacgggctt cagtagtgga cccagttcta 660
 ttgttggctt cagcgggtga ccaagcactg gtgttggctt ctgcagtgga ccaagcacca 720
 gtggcttcag cgggtggacc agcacaggag ctggcttcgg cgggtggacca aacactgggtg 780
 ctggcttttg tgggtggacc agcaccagtg ctggcttttg cagtggagcc gccagtcctg 840
 gtgcctgtgg ctctcgtat ggctagtga gtttcagatt tattccccat gtttacagat 900
 accgctaata aattgcagta gtccttccca tggagccaaa gtacatcctt ggaatccttg 960
 tccacacagc agtcaaggca gttatggcca atcagctgag ggtgtcatgt gatggaaaaa 1020
 tctgtttgct gttcctgctt tattgtttgc tttctgtgtg ctgtcatatt ttggtatcag 1080
 agttacatta aatttgcaaa aaaaaaaaaa aaaaaaaa 1118

<210> 67
 <211> 2793
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (223)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2782)
 <223> n equals a,t,g, or c

09950032-091201

<220>
 <221> SITE
 <222> (2786)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2787)
 <223> n equals a,t,g, or c

<400> 67

gaaagataca	ctcaccggag	aaaagaagtt	tctgaagaaa	accacaacca	tgccaatgaa	60
cgaatgctat	ttcatgggtc	tcctttttgtg	aatgcaatta	tccacaaagg	ctttgatgaa	120
aggcatgcgt	acataggtgg	tatgttttggg	gctggcattt	attttgctga	aaactcttcc	180
aaaagcaatc	aatatgtata	tggaatttggg	ggaggtactg	ggntgtccag	ttcacaaaga	240
cagatcttgt	tacatttgcc	acaggcagct	gctcttttgc	cgggtaacct	tgggaaagtc	300
tttcttgag	ttcagtgcaa	tgaaaatggc	acatttctct	ccaggtcatc	actcagtcac	360
tggtaggccc	agtgtaaatg	gcctagcatt	agctgaatat	gttattttaca	gaggagaaca	420
ggcttatcct	gagtatttaa	ttactttacca	gattatgagg	cctgaaggta	tggtcagatg	480
ataaatagtt	atttttaagaa	actaattcca	ctgaacctaa	aatcatcaaa	gcagcagtg	540
cctctacgtt	ttactccttt	gctgaaaaaa	aatcatcttg	cccacaggcc	tgtggcaaaa	600
ggataaaaaat	gtgaacgaag	tttaacattc	tgacttgata	aagctttaat	aatgtacagt	660
gttttctaaa	tatttcttgt	tttttcagca	ctttaacaga	tgccatycca	ggttaaactg	720
ggttgtctgt	actaaattat	aaacagagtt	aacttgaacc	ttttatatgt	tatgcattga	780
ttctaacaaa	ctgtaatgcc	ctcaacagaa	ctaattttac	taatacaata	ctgtgttctt	840
taaaacacag	cattttacact	gaatacaatt	tcattttgtaa	aactgtaaat	aagagctttt	900
gtactagccc	agtattttatt	tacatttgct	tgtaatatata	atctgtttta	gaactgcagc	960
ggttttacaaa	attttttcat	atgtatttgt	catytatact	tcattcttaca	tcgtcatgat	1020
tgagtgatct	ttacattttga	ttccagaggg	tatgttcagt	tgtaggttg	gaaagattga	1080
gttatcagat	ttaatgttgc	gatggggagcc	tttatctgtc	attagaaatc	tttctcattt	1140
aagaacttat	gaatatgctg	aagattttaat	ttgtgatacc	tttgtatgta	tgagacacat	1200
tccaaagagc	tctaactatg	ataggtcctg	attactaaaag	aagcttcttt	actggcctca	1260
atttctagct	ttcatgttgg	aaaattttct	gcagtccttc	tgtgaaaatt	agagcaaagt	1320
gctcctgttt	tttagagaaa	ctaaatcttg	ctgttgaaaca	attattgtgt	tcttttcatg	1380
gaacataagt	aggatgttac	atttccaggg	tgggaaaggg	aatcctaaat	cattttccaa	1440
tctattctaa	ttaccttaaa	tctaaagggg	aaaaaaaaaa	tcacaaacag	gactgggtag	1500
ttttttatcc	taagtatat	ttttcctgtt	ctttttactt	ggttttattg	ctgtatttat	1560
agccaatcta	tacatcatgg	gtaaacttaa	cccagaacta	taaaatgtag	ttgtctcagt	1620
cccctccagg	cctcctgaat	gggcaagtgc	agtgaacacag	gtgcttcttg	ctcctgggtt	1680
ttctctccat	gatgttatgc	ccaattggaa	atatgctgtc	agtttgtgca	ccataggttg	1740
accaggcctg	tgctcagttt	ggcagctata	gaaggaaatg	ctgtcccata	aaatgccatt	1800
cctattttct	aatataaaaac	tcttttccag	gaagcatgct	taagcatctt	gttacagaga	1860
catacatcca	ttatggcttg	gcaatctctt	ttatttgttg	actctagctc	ccttcaaagt	1920
cgaggaaaga	tctttactca	cttaatgagg	acattcccca	tcactgtctg	taccagttca	1980
cctttatttt	acgtttttatt	cagtctgtta	attaactggc	cctttgcagt	aacttgtaca	2040
taaagtgtca	gaaaatcatg	ttccttgtcc	tgagtaagag	ttaatcagag	taaatgcatt	2100
tctggagttg	tttctgtgat	gtaaattatg	atcattattt	aagaagtcaa	atcctgatct	2160
tgaagtgtct	tttatacagc	tctctaataa	ttacaaatat	ccgaaagtca	tttcttggaa	2220
cacaagtgga	gtatgccaaa	ttttatatga	atttttcaga	ttatctaagc	ttccaggttt	2280
tataattaga	agataattag	agaattaatg	gggtttatat	ttacattatc	tctcaactat	2340
gtagcccata	ttactcacc	tatgagtga	tctggaattg	cttttcatgt	gaaatcattg	2400
tggtctatga	gtttacaata	ctgcaaactg	tgttattttta	tctaattccat	tgcttaatga	2460
gtgtgttttt	ccatgaatga	atataccgtg	gttcatatgt	tagcatggca	gcattttcag	2520
atagcttttt	gtttgttggg	aagttggggg	tttgggggga	gggggagtat	tagtacgttg	2580
catgaaatag	cttactttat	aatgatggaa	ttgctttttc	ttttgtcttg	tgattttttt	2640
ttttgaagtg	aaattttaact	ttttgtgcaa	gtagtactat	tatacccatc	ttcagtgctt	2700
tacttgtact	gtatcacatt	ccataccctc	atttaattct	taataaaaact	gttcacttgt	2760
taaaaaaaaa	aaaaaaaaaa	ancccnnggg	ggg			2793

<210> 68

<211> 1974
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1967)
 <223> n equals a,t,g, or c

<400> 68

tggttgggat	gtggagttgt	tgctggactc	tcaggcgaac	gtgaagtcac	tgaagtgtgt	60
gaagctctgt	gcttgcatga	gggcaagcaa	ggaatggctg	tgctgaggct	gctctgggaa	120
actccttgcc	ccttgacctc	ttttgagagc	attcacgtgg	tcttcttgct	catcccccta	180
taaatgtgct	ttgcctgcct	cagcctcatg	gtcagagcag	tggagactgg	agccctgttt	240
gcacgttcta	gttggttcgga	gaaagcctag	gttctgggct	caggtccaga	tgcagcgggg	300
attctgttct	ttgactgtgg	cgaccttgct	ttgggtcttg	ttgaagtga	ccaagcccgg	360
ccaccacgca	tggcatgctg	tgcttggctc	cccataagac	gtcctctttg	ggtgcacggt	420
gtcaaagtgt	gggcaggagt	ggagagctgg	tgccctcagg	aggagaccac	agcatgtcca	480
tcagctcagc	agagctcgac	agccacaagt	cctgagaagc	tttgaccttg	aagggcttct	540
gggagaggag	gaatttctgc	atggggcgctg	aaggcacact	gtcccaccac	aactgaacca	600
gaagagagtg	aagactcccc	tcttccccatc	ctctgtgcca	ggtgccagac	tgwctccagc	660
caaggtgcaa	agacgagatt	atgagacagg	tcctcaggcc	tgtgttccaa	gtactcacag	720
gggctctggg	tgcccatcgc	cgggagtatg	gttcagctgc	caccggcact	gtccatttgc	780
ctgtctgtca	agctcagagc	atggataagc	cacacagcag	ggcagtgac	cctggcacca	840
tgcacggcca	gcaagaatca	aggcccgcag	atgctaagag	ggcctattgt	caggggaagg	900
tccccgtctc	tgcacactct	ctatggatac	ttgggttgctg	ggggctctct	tggagagtaa	960
gtttgtgggt	tgtttctggg	ttacagtggg	ggctgacacc	ccttgtaaga	aagcattcct	1020
gggaagtctt	ctgtgggtcc	aaacatgttg	ctccgatcat	cacaggagag	caaaaggccc	1080
tagatacccc	ctttggaatg	tgagagtctt	gttgtctgat	atttgccact	gagctgggtga	1140
agccccctcta	aagagatctc	gaccctgggg	agcagaattc	ttgtcatcta	tgaggggtcc	1200
tgagaaagac	ttgtcatttt	ttttcctgga	gttcttccca	ttgaggctct	aggatttgca	1260
caccactgtc	ccacaagagc	tttctctgct	aatgaaagga	ggtcttgtgg	tgtgtgtctc	1320
ctctcttctc	tatagttccc	gagttggccc	ccattgcagc	ccccaccctg	tgggtagtct	1380
tccagaagtg	atgcagtggg	gtgagatgac	ctacaccttg	ttatttgagg	gactttgaga	1440
gtcattcact	tccatgggtga	ctagtgtttg	ttttgcctga	ttttatattc	tgtgttgcat	1500
ttctccccac	tccctgacct	gctttaataa	acagcaaacc	aatatctagg	aagaatgact	1560
gagggatagt	attgggtatt	ggccccatgg	caggaacagc	cacttgcatc	tgggtcccgg	1620
gccacactgc	ggtgcttggg	gtgggttggtg	agcctgtccc	tgcgcgcctt	gctcccgttg	1680
agccacgctg	tctgggtggg	gattctctgc	cctgagccac	caccctggac	tggcccagtc	1740
tccagagctg	gcacaccctg	cctgttttct	cttttttagac	acaacagccg	cagttttggc	1800
agccactaag	tcccaccagc	tgagggtccga	ggaaagcggg	gtgactcatt	tcccttgtcc	1860
agggcccag	gagagtgagg	tgtccagcct	gcaaagctat	tccagctcct	tgggtgtggg	1920
ttgcaataaa	ttgggtattta	agcagtaaaa	aaaaaaaaaa	aaaaaanact	cgag	1974

<210> 69
 <211> 1331
 <212> DNA
 <213> Homo sapiens

<400> 69

tgccaggaat	tcccttaaac	tccacggggc	tcctttgtat	acaacctata	tttattcaac	60
ctctctcatt	tccattttga	aaaactggag	tagtctgaaa	ctcttttggc	ttatggtgac	120
cagaaatagt	gttctggctg	gcacctctct	aaaagcatct	tcttgacgag	acataggttg	180
aaatgttaaa	tgcactctca	cttaccacac	actctggtgt	tgtagtaatc	tgggagcatg	240
cgctcacaca	aagccacaag	cagccagaaa	gcttcctcct	ctttggcata	aagcagcagc	300
actgaagtga	caatattcat	ggcctaaaaa	agtgaagag	gatgtcatca	aatacagttg	360
aaaatataag	caattctggt	agcatattaa	aattactcag	ttattctcac	aagggctggc	420
aaaccttttc	tgtgaaaagc	gagataaata	tgtttaggct	ttggaggctt	tacacatagt	480
ctctgtcata	tattcttctg	agttttgttt	tatgaccctg	taaaaacata	aaaacctgag	540
tccttgaacc	agtaagtgtg	cagggctctc	cttaacacca	atattcacca	gacagagccc	600
cgaactcatg	ctggcaaac	cctattccaa	aaatttgccc	aaaggctatt	tcacaaagct	660

tttaacctgt	taaaatctct	cagtgttctt	aatccttaat	tcagtgaggt	aaacatttcc	720
tttgtaactt	tccgtaatgg	tttctataat	caggtagaca	tggctccagg	ctctcctgag	780
agaacaacga	aacctttcag	acttggagtc	ctcaccacaac	atttccatac	ggagagagat	840
ggtagtgata	actgagagtg	atttaaattc	taaagtaact	gtagtttatt	aaaagatatt	900
atcagatacc	tcataaccac	tctagactca	actactttta	tagtcttctt	aattaaaaag	960
aggaagatca	aaaggtaaatt	atgaacttta	tcatattaga	ggccaactac	ctcctgtact	1020
tcttttgatc	tcccagaaac	cggtaactgt	tcatcaggct	tctacaattc	aatttcaaaa	1080
aaggatattt	ggtttaatat	gctctttctt	gtaagtctta	ctcattatgt	tcccaagtga	1140
catcatcatg	gaaattccac	ttgagaatta	acctgctgat	cctagtagat	gatgatgggc	1200
cctgccagtt	ccttagtcat	ttagcggaga	taggtttttt	taggggtcta	ccttgtaaca	1260
ggctctggac	taggtattgg	aggatggggg	aggaattcga	tatcaagctt	atcgataccg	1320
tcgacctcga	g					1331

<210> 70

<211> 2111

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (225)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (612)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1142)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1203)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1245)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1765)

<223> n equals a,t,g, or c

<400> 70

tgataactaa	acacacatgt	ggtgaatcgt	cactcatggt	cctgatcact	tgggttcatt	60
gtgcttgatc	atcaaaaagga	ccccagacgt	gcctgccacc	aatccccagg	ctgaccaga	120
tgtctctagt	gactcagtta	ggaggatgga	gggcaaaactg	acaacaagca	aaattctaatt	180
tgttggaag	gtatttttggg	tttctctgac	tttggttttat	atttnttttt	tttgagaaaa	240
agatagtcaa	accatccagg	cataaaatca	ttctaataga	aaagctgttg	agaatcatgg	300
agaaaaaaaa	taaacctgt	acactggagc	tactgctta	ctcacaggca	cttacatcag	360
gatagcagca	gcagcggcag	caggagcaga	aaaacaggct	aatcagaagg	aagaaaaaac	420
attctctgaa	aacgctaaaa	tggagcaaca	gtagtggcct	agaaaggggt	atcatatgtt	480
ttggtaaaaa	taataataat	aataataagc	catgtagcaa	tggagaattg	aaattcctga	540
gagtcactga	aactgttcag	gggtccttt	cattctcttc	ttcacttcca	aacctgcaa	600
atccccacg	gnagctcttt	gtatagatat	aatttctcag	actacttagc	ggagaaattc	660
atacttttat	agaaaggat	gtgatgatgg	tgtatttatg	tgtgaaagag	aaaagaggaa	720

T02T60-28005660

```

tttactgggtc tctccatctt caagaaagaa aatttctaaga attttcacat caccacctac 780
agaccatgac aatgtcttcc agaaaaataa acattgttcc ttttatggct tttagaacta 840
gaatgcagaa ttcaattatt tatttttaaaa tccctaacag gattttatcc tggaggagaa 900
agcgtgcaca agtaaaagga attgtaaatg ctaacaaaat aaaggaaaaa agacaaaaag 960
gctcattata gaatttttcag tatcagggga ttctaattct aaactgtgga tttaattcgt 1020
gtcattgttg attacatctt ctgggctgtg accagtgttg taaaagaata ggagaagcat 1080
gaagtctcaa aggcaacttc tcttctccat gcccatggga atatcttaga gctcacaatg 1140
angttaataa aaagcccctg attccttgga tctcatggat aaagagctca ccaattamca 1200
ggncccacag gaaagaacaa agcagcttca tatcgaaaca gaaanaacaa aaaacaaagc 1260
cctgcaatth gcaaatgtcc aagaagtgc tggaaatca gtaataatg gaaaggaata 1320
caatttttaa aaaaataggc tctgtgcata tttgaaagt tctttttttc cagataaata 1380
attctagatg aacaatttca tacacacaga gcatttgaat aattccatag aatccatttt 1440
accagatctt tctgcctaata tacaagtctt tgaaccagac accggtactt gaaagatcaa 1500
tgcttggtg cacaaagcat atataaagca taattaagag gaggactgct cgacagagcc 1560
acggataaca tgcataatgga tgtgtgaagt cttcacatgt acacacttta tagctgtgat 1620
atgcacatca gacacatact ctcaactgtcc aaaatgtctt tggctgccat tttataaatg 1680
aggcaatcaa agggaaatgg aattaaaaac aaataataag gtaaccaaat tttagatcat 1740
cttcttattt gaatctctga gtatnaagca agtctattta actccatttt gaagtattta 1800
tctctgaaaa taccttactt cctattttaga tcaaaatttg gtacatttct aggaaatacg 1860
tggattttta atgtgaaatg atttgttcaa cttgcttctc atttttttta ttccaaatca 1920
atataatcaa acattaacac tttggactac tcagaaagta tatttatact ttcaggaagg 1980
attatggtag agtatgtact taagtgggag catttttgtg gtaaactagg aaggttggct 2040
tagtctctgg gaggcaaaca aatcgaagtc gcggaattcg atatcaagct tatcgatacc 2100
gtcgacctcg a 2111

```

```

<210> 71
<211> 592
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (451)
<223> n equals a,t,g, or c

```

```

<400> 71
tttgctnct gccatgcctt ttccctaccc gcttctcag ccctcgccac ctcccctctt 60
cccaccctg cccagagata cccctttttt ccagggccag cccttcccac cccatgaatt 120
cttcaactat aatccagtgg aggaacttct gatgccacc cacttaggat gtggccctgg 180
agtgaacttt gtgcctggcc ctctgccacc tccaatccct ggccctaate cccatgggtca 240
gcactggggc ccagtgggtc accgggggat gccacgctat gttcctaaca gcccctacca 300
tgtgcggaga atgggggggc cctgcaggca gcggctcaga cactcagaga gactgatcca 360
cacatacaaa ctggacagac ggccctcctgc ccattcgggg acatggcctg ggtagactgg 420
atcttgggct gggactggat gtgccaatgg nccttcaggg cctgcctggc acctcaggta 480
ctgggctagg gtgtctgcta tgccctggat tgttcttgtc cattgctgtc accaataaag 540
gcatggaaga acagagtgc aaaaaaaaaa aaaaaaaaaa aaaaaactcg ag 592

```

```

<210> 72
<211> 1010
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (350)
<223> n equals a,t,g, or c

```

<220>
 <221> SITE
 <222> (584)
 <223> n equals a,t,g, or c

<400> 72
 ggcacaggtt taaacgaggt gagttcacat aacaggaatt ctggaactgc ttgaaaacta 60
 ggacgatttg gcaatatcgg ccttaactcc acctgatggc aggtgacccg gatagaaaat 120
 ggccctgcgt ttagccagga tgtggctctc cagcttggct tcagtgtgat cacttgtcag 180
 tgcgctttct ctttcgatag tgaaatcctt ctctatacct atgttttgtt ttgtttctta 240
 agttgggaaa cagaatgggc cagggaggtt gagtgactga agaccaaggg ttggtgcagc 300
 ctccctcgccg cgctgcgggg gctggggccg acaggcttct gcccttctcn ggtgtccagg 360
 ctccctgggt ratgctggag tktmatgsc cgcagttcag tgtgagattt tttaccagg 420
 attgcgctta aagggacatg attttccatt ttcttcgccc ggacaacttg aatgaaatgg 480
 gcactgttga ttccacttct gtcragragc ttccggggctc agagaggtga tgacgtgccc 540
 aaggtgacgc aactcgtgaa cagccgtgcc tgccttgggc gcantccgg gccagagct 600
 gggctcttca acacggcatt tagcgcagaa agtcgtgggt caggcagtat gggccgctgt 660
 gacaaaacac ctaagactgg gtagtttata aagaacagac attcaggcca ggcacggtga 720
 ctacgcctg taatcccagc actttgggag gccgaggcgg gtggatcatt tgaggtcagg 780
 agtttgaaac cagcctggcc aacatgggtga aaccccatct ctactaaaaa aacaaaacta 840
 gctgggggtg gtggtgcatg cctgtgggtc cagctacttg ggaggctaag gtagaagaat 900
 tgcttgaacc tgggaggcag agattgcagt gagccgagat cacgccattg cactccagcc 960
 tgggtgacac agtgagactc catctcaaaa aaaaaaaaaa aaaactcgag 1010

<210> 73
 <211> 1219
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (575)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (582)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (606)
 <223> n equals a,t,g, or c

<400> 73
 tttttttttt ttttttttgg acatgtctat ggaaggataa ttccagaagt atcatgcaac 60
 ggtagccaag gcacaggtcc tgtctttaag cagtttatgg tatagtggg aaaaggggtg 120
 gtaaaaacac aaaatacctc ccatgcaaat gtccctaactc tcttcattaa tcaatatcta 180
 catgatccca caggtctact tctttatctt catctctgca ggactagata tttgatagtt 240
 actactttcc caatgctaac ttcttcatct atcctgtcat attttgtttg tttcagtttt 300
 tatttttttg tttgtttgtg ttctgttttt tttagagaca gggtctcagt ctgtcactca 360
 ggctggagtg cactggcaca caaaaagctc agcagcctgg gacttctggg cacaaaccct 420
 cctcacgcat caacctccaa agtgggtagg actacaggca tgtgccacca catctggcaa 480
 attttttaaac tttttttttt ttgcaaagac aggggtctcac tctgttgccc aagcgagtct 540
 ggaactcccg ggcacaagca atccaccac ctancctct cnaagtgtg caatcacagg 600
 cattanccac cttgccagc ctgattttgt ttttaataa tttcacagtc acattcgctg 660
 aaacttactt ctcccttatt ctcttatatt tcagtacttt tcaacattct gtttggataa 720
 cgtcacttat ctggtgcaa atacttaaat cgtagtctga tctattccca ggaattcagc 780
 attaccagtg ttctgactcc taaagctaca ttcttctgct tatctatact cacaaatttc 840
 agatctatat cctgttaaat atcacttgca tttttcaaag ataccttaag tacaggatat 900

cttaaccaga	atcattccaa	ggaaaatgtg	ctgctctttc	cacttttccc	aaggttggca	960
aatggcacca	ctttttcctc	accctctcgg	gtaggatctc	ttggtatctc	ccactgttct	1020
ccatagcctt	atccacatct	ctgcttagca	aatccctact	tttccaccct	tcaaaccacg	1080
gctatgattt	tttghtaacc	acactcaagt	cctcctctac	ttctttagc	atataatcag	1140
tctctccata	taatgcctct	catgccttta	cttttaaaca	tcaaactctg	tcgtgtcgaa	1200
ttctttggat	ccactagt					1219

<210> 74
 <211> 1392
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (11)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (17)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (26)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (71)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (86)
 <223> n equals a,t,g, or c

<400> 74						
cttaagaacc	ncccccatt	ctttgnccca	tccagtcttt	tctaacttgg	tctggtcttt	60
tgtcccatcc	nttttgaaga	ttttgnccga	wttttgamca	aggccacca	cctgcagcaa	120
tgamcaaagt	tccaatgcc	aataagtaaa	gaggggagcc	accacgaacc	cggtgagggc	180
atcgagattt	tggtttccaa	catagcacaa	gccagtcagt	tcactctgcat	ccaccagtct	240
cataatcaag	atgacaatgg	ttttcactgc	ggggatggcc	caggctgcaa	tgtggaaata	300
agagctgtgc	atltcaatgg	cttcatgacc	ccatttgagt	cctgctgcca	aaaaccaagt	360
gagtgtcaga	ataaccacc	aaatggagct	ggccattcca	aaaaagtaca	tcagcaagaa	420
aattattgca	catcctgtgt	tcttaagtcc	ttcttggatg	agaacagggt	ctgctgcctc	480
ttcaaaatca	caggatatcc	tttcccggcc	tacagtcagc	ctgacaataa	gcaatgctat	540
aaatattata	gcacatactg	agaaatatga	tggggcgctc	agggtaggaa	aacctagaag	600
aatcgatcag	gaaggtcagt	actgtgaagg	cagtggagat	gaaacacagg	ctggcccaca	660
cagccatcca	gatatcagtg	aactccttgg	ctgagcggct	gtataagcca	gcatcatagc	720
cacacttgag	cacacagttc	aggctccttt	tcaccagat	gtactgatca	gaattggttc	780
ccacagagtg	acactcttcc	ccaggctgga	tgggggtttt	gtgaggtaag	ggcacctctt	840
catcacctgg	cccttccatg	cacatgtggt	tgtggtcggt	ctgtggtggg	aatttgctgc	900
agttcagact	ctctggccag	gcaaattccaa	attccttcag	gacgggttca	cagcgtctct	960
tgactgaaag	acacatgccg	ccgcatgggc	caatggggat	gttgatcttc	tctgtgcaca	1020
ttggcacata	aacagaacaa	aggaagaact	ggaaaagtaa	caaaatgaac	acacacaaaa	1080
aaaacaatga	cttggaagtt	tgaccaaagt	ctcccacaaa	gctgagttga	atgcttccag	1140
gcaatctagg	tatctacttt	taaaccaacc	tatcgggagt	ctgtctgttt	actctgacct	1200
caaacaaggg	cgcctgataa	tccatcactt	acatactttt	cttagtttgg	ctttagtaat	1260
cctttccaga	agaatgtaca	taataaataa	aataaaataa	atagggtctg	aagaattgca	1320
taagccctct	ttgcacaaca	cttgaaataa	atcttaaaaa	actgaaaaaa	aaaaaaaaaa	1380

095008-091201

1392

<400>	75						
tttttaaccc	cttttagggc	ttccggggcn	cggtatggtt	ggtgtgggaa	ttntntggggc		60
gggttaacca	atttcacccc	nggraaccag	ctatggncca	tggatttasg	ccagctcgaa		120
attamcccty	cactaarggg	amcaaaagct	ggagctccac	cgcggtggcg	gccgctctag		180
aactagtgga	tccccggggc	tgcaggaatt	cggcacgag	tttaggagga	atacaattca		240
agaacctcac	tttgaagcta	accatagcaa	acctagttta	cctctagaat	gcaggtgaca		300
gtgtgcaacc	actcctgtca	tctgtctttt	gtatgctctt	cataagcaat	cttcctcttc		360
cttcccagtt	cattttattta	gcctctgatt	cattctcttc	ttctccacc	cctttctctt		420
ctaccagcca	gcctaccaat	acttattctc	tctgaaagga	tcttatcctt	taccagaagt		480
tcagttatta	cctctaagaa	ccagtcacct	cccttttaaa	ttttcttttc	cctgaaagag		540
tcagttttat	gtattagaaa	aatgaaggta	tatgttttcc	tttaaaggga	ttataatcat		600
tacagaaaat	tttaaagttt	tcaaaaaaatt	aaaaaaaaaaa	cccagaattt	cccaaaacct		660
gactattccaa	agagaagcac	ttaatgttat	gtgtgtgatc	ttgagtga	atttaaaatt		720
tatatattgaa	catttttataa	attatccaaa	ctttttgtac	gaaaaaaaca	gaaaatgtaa		780
aaaaaaaaaaa	aaaaactcga	gggggggnccc	gca				813

<220>
<221> SITE
<222> (940)

<223> n equals a,t,g, or c

<400> 76

ggcacaggac	cagtggagtg	agctgttcat	ggatgcgcta	gggcccttca	acttcgtgct	60
ggtgagttcg	gtgaggatgc	aggggtgtcat	cctgctgctg	ttcgccaagt	actaccacct	120
gcccttcctg	cgagacgtgc	agaccgactg	cacgcgcact	ggcctggggc	gctactgggg	180
taacaagggg	ggcgtgagcg	tgcgcctggc	ggccttcggg	cacatgctct	gcttcctgaa	240
ctgccacttg	cctgcgcata	tggacaaggc	ggagcagcgc	aaagacaact	tccagaccat	300
cctcagcctc	cagcagttcc	aaggggccgg	cgcacagggc	atcctggatc	atgacctcgt	360
gttctgggtc	ggggacctga	acttccgcat	tgagagctat	gacctgcact	ttgtcaagtt	420
tgccatcgac	agtgaccagc	tccatcagct	ctggggagaag	gaccagctca	acatggccaa	480
gaacacctgg	cccattctga	agggctttca	ggagggggccc	ctcaacttcg	ctcccacctt	540
caagtttgat	gtgggtacca	acaaatacga	taccagtgcc	aagaaacgga	agccagcttg	600
gacagaccgt	atcctatgga	aggtcaaggc	tccaggtggg	ggtcccagcc	cctcaggacg	660
gaagagccac	cgactccagg	tgacgcagca	cagctaccgc	agccacatgg	aatacacagt	720
cagcgaccac	aagcctgtgg	ytgccaggtt	cctcctgcag	tttgcctttc	agggacgaca	780
tgccactggg	gcggctggag	gtgggcagat	gagtgggtag	ggcccagaca	ggcgggtggg	840
aggttaccgc	wtggaaacak	tkttcgscgg	cagytccctg	gactggatcg	gcttataacc	900
ggtgggtttc	cgccattgca	aggactatgt	ggnnttatgn	tgggccaac	atgaagatgt	960
ggatgggaat	acataccagg	taacattcag	tgaggaatca	ctgccaagg	gcatggaga	1020
cttcatcctg	ggctacyata	gtcacaacca	cagcatcctc	atcggcatca	ctgaaccctt	1080
ccagatctcg	ctgccttcct	cggagttggc	cagcagcagc	acagacagct	caggcaccag	1140
ctcagagggg	gaggatgaca	gcacactgga	gtccttgca	cccaagtccc	gcagcccag	1200
tcttggcaag	tccaagcgac	accgcagccg	cagcccggga	ctggccaggt	tccctgggct	1260
tgccctacgg	ccctcatccc	gtgaacgcag	tggtgccagc	cgtagcccct	caccccagag	1320
cgcgcctcgg	tcccagattg	ctcctgaacg	gagcagtaat	ggcagcagcc	ggggcagtag	1380
tgaagagggg	ccctctgggt	tgccctggcc	ctgggccttc	ccaccagctg	tgccctgaag	1440
cctgggcctg	ttgcccgcct	tgccgctaga	gactgtagac	cctgggtggg	gtggctcctg	1500
gggacctgat	cgggaggccc	tggcgcccaa	cagcctgtct	cctagtcccc	agggccatcg	1560
ggggctggag	gaagggggcc	tggggccctg	aggggtgggt	aggcagatgg	gccaaggtga	1620
ccaccattct	gcctcaatct	tttgcaagcc	cacctgcctc	tctcctgctg	ctcctccagc	1680
tgtatctgca	cctgcctctc	tgtcctggcc	aggggtggac	aactggggtc	ccccaaaact	1740
cagtcctggc	acctcaactg	tgacaatcag	caaagcccca	cccaggcccc	catctgggat	1800
gatgggagag	ctctggcaga	tgtcccaatc	ctggaggtca	tccattagga	attaaattct	1860
ccagcctcaa	aaaaaaaaaa	aaaaaaaaaa	ctcgag			1896

<210> 77

<211> 1276

<212> DNA

<213> Homo sapiens

<400> 77

ggcacagagtt	tccgtttccag	gatcttgagt	acagacatat	gtggttttat	tgcactttgc	60
tttatcatgc	tttgagata	ttgtgttttt	tacaaattga	agatttttga	caatcctatg	120
tcaagcaagt	ctattgggtgc	cattgtttcca	acagaatgtg	ctcacttttt	gtcacatttt	180
ggtaattctg	aaatattttca	aaagttatta	ttaatctgtt	atgggtgatct	gtgggtctttg	240
atgttaatat	tgtaattgtt	tgggagcaca	acaaaccatg	cccatgtagg	ttgcaaactt	300
agtttgtaaa	tgttgtgtgt	aatagttgct	acaccaacca	gctgttcccc	aatcactctc	360
cctctcctta	ggcctcccta	ttccttgaga	caaaataata	ctgaaattag	gcaaattcac	420
aacctataa	tggtctctaa	ctgttcaagt	gtaaggaaga	gtcacacatc	tttcaactta	480
aaccaaacc	tagaaaggat	tgagcttaat	aaagaaggca	tgtcaaaagc	tgagataggc	540
caatagctag	gcctcttggt	ccagttagcc	aagttgtgaa	tgcaaaggaa	aagtccttga	600
agaaaactag	aactacttta	gcgaatacac	aaatgataag	atagtgtgac	attctaattg	660
ctgatatgga	gaaagtttta	gtagtctgga	taggagatca	gccacaacat	tctcttaagc	720
caaagctaac	tctcttcaat	tctatgaaag	cttagaggtg	aggaagctgc	agaagaaaag	780
ttggaacctg	gcagaggttg	gttcatgagg	tttaaggaaa	gaagccatcc	tcatagcata	840
aaagtgcaag	gtggtgcagc	aaatactgat	gtagaagctg	cagcaagtta	tccagaagat	900
ctagctaaga	ttattgatga	aggtggctac	actaaacaag	agatttttcag	tgttgacaaa	960
agggttttct	tttggaagaa	gatgccatct	tggctttgaa	tagctggaga	gaataaggaa	1020
atgactgact	tcaagggaca	ggctatcttg	ttaggggcta	atgcagcagg	tgaccttaag	1080
tcgaagccca	tgctcattta	ccattctgaa	aatcttaggg	cccttaagaa	ttatattaaa	1140

tctatcctgc	ctgtgcttta	taaataagaac	aactaagcct	ggatgccagc	acatctgttt	1200
atagcatgat	ttactgaaga	ttttaagtc	actggtgaga	cttactgctc	aaaaactaaa	1260
aaaaaaaaaa	aaaaaa					1276

<210> 78
 <211> 1807
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1807)
 <223> n equals a,t,g, or c

<400> 78						
cccgggatcg	accacgcgt	ccgctttaca	tatcatactt	tgggggttaa	ggagattcct	60
cagactcatc	cagcccttgg	gtgctgacca	gcagagtcac	tagtggatgc	tgaagttaca	120
tgagctacat	gttaaatatt	taaagtctcc	aaaataaaac	acccaacgt	tgaccttacc	180
cggctgatgg	ttagccccct	gctgcctgct	ccatgtgtct	tatgagagcc	cgtagttaca	240
gtgtcctcta	atttgaaatc	cataagttaa	caagtctata	tcaggtgcag	ctggccttga	300
ttaaaggcca	tttttaaaac	ttaaaaactc	aacacctcac	agattataat	agaaaaagaa	360
atggcctcag	tttgatctcg	ttcagaatga	cccagattgt	ttctgctttg	ggtgcagctg	420
tttagttcag	agttatatta	cagagaatta	ttttctgaga	taatcttaaa	ctagaatgtt	480
caaaaactaat	tgataattga	agtatcaaga	tacgtagaac	acctcagaga	tttttcttca	540
ggaactttcca	caaactttga	atccttgtat	ctttatttgg	tattcatact	actagtagca	600
aaatacaggt	tttttgtttt	gttttgtttt	ggcttcatag	agtatctcaa	attgaaactt	660
ttctgcacaa	agaataaaat	taaggatttt	ataaactcaa	attggcacct	actgaattaa	720
aatacataaa	atcattttaa	tataattcag	catatgggaa	gtaacattgc	actaatatgg	780
aaatcactgc	cagagacagt	ctattttctt	ttaatttggt	actacttagt	cacaaacccc	840
acattattcc	agtttggaat	tacttattaa	ggagaattgg	aaatacatat	gcccattgctt	900
aaattttata	gcttttaatt	gtgttatttc	tttattgacg	ggaagaggta	catctttttt	960
tccttactga	aaacaaatat	ggattaattg	cctcaaat	gtataagtga	ttggctagtg	1020
attcttgttt	tcagaaggga	gagtgggtata	gatagaaaat	gacaaagatg	gcaatataca	1080
cttaatgttg	ttattgtatg	ttgttactga	agtacttaga	tttttaaaat	ttcaaactct	1140
aaatcacttc	ttgtaggagg	gttttcatta	actgcagtat	atacagttca	ctacatatgg	1200
gttgtttgag	ttttttgtgt	gctgtatttc	tttctgtttt	ttaataacctg	gttttgtaca	1260
tatctaactc	tgttctcttt	tgggtgttca	gaaactggat	tttttttttc	ttaagcagtg	1320
cttaatttgt	gttttttaat	tttgattcag	aagtagtccc	agctcatagg	tgttcatact	1380
gttacatcca	gaacatttgt	caggctctct	gtcagctttc	atgtacatat	ggtatagaaa	1440
ccatggagtt	aggcacttcc	tggatttttt	ttttatgaga	aaaatactgt	attttaaattg	1500
taaaataaac	ttttaaaaag	caggcactaa	tatatatttc	ttccagcctt	tgattacaaa	1560
tttgccttgg	cacatgttaa	gatgaattat	ctcctaataa	tatcattgtt	cttgggagca	1620
gtgtatgtta	ctttacatag	cagcggttcc	tgtcatgtgt	tcatgtcaga	atatttttgg	1680
ttttaaaact	tcttattgcc	tttggctgtt	gattagtaca	gtacaagtgc	gatttcaaaa	1740
agatcttgaa	agtaatatat	ttaatcaatt	aaaatgttta	tctgtaaaaa	aaaaaaaaaa	1800
aaaaaan						1807

<210> 79
 <211> 1732
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (6)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (56)
 <223> n equals a,t,g, or c

00500560-01001

<220>
 <221> SITE
 <222> (83)
 <223> n equals a,t,g, or c

<400> 79

ttaaantggt	ttttgggggt	ttattcccaa	aggaaaacct	tccaccaaaag	gttacntatt	60
tacctagggt	caaaattata	ttnttttagga	agggtgccctg	gattttttggt	caggagattt	120
cttacmaacc	atwttaaaaa	mcamactttg	aaaagtmctc	tactaccaga	agcacttaga	180
ctatcacaga	aaaatacatg	aagagttaat	gtctgagata	agaccagcag	cttatagtta	240
taagaaaaac	acactgtaca	atgtttgggg	gggaaatctg	ttgtttatag	aaaagcttta	300
cctttttctt	atztatcctc	agataacgtt	gtgaaatctg	ctcatcagta	aggatgatat	360
ggaaagaatt	ctctttttct	atctatgggt	tatttacata	ttaaaatttt	actcagttta	420
ttaagtacac	atatgatacc	acactagatg	caaatatata	tacaggctat	gacagtcaat	480
gttcaattta	atactgggtca	ataaagtga	tttattcaaa	tgtaacaact	tcacttgaat	540
tttttggatc	acacatatcc	tatataaagc	catctgggtt	ctaattattat	gcacaacaca	600
ttccatttta	attataacat	tcatctacaa	gaaaaacaag	gaaaacaatt	caaaactatg	660
ttagtaatta	gttcttgttt	gggtccattgt	acgcaatcag	graagtatag	gacttaatta	720
gttgctatca	aattgaagcm	atgaaaaagg	taaaaatcaa	gtacttaaaa	taaaaatatg	780
gaaataaccc	cccctcccca	atactwwagg	gacacwwaac	aacaactact	gtcccatcaa	840
gcaaaagtgg	aaaacaaaca	gagcatgtgt	gtaacctcac	ttaccatctt	tttgttattc	900
tacttcaacg	ggtcaagaaa	ggtgaagaga	gagaaggtag	aagtaagagt	cagaaaaggc	960
ctaaataaaa	tcctcactga	aatgtttaaa	catacaagca	atagagacaa	ttaggttgag	1020
gtcagatgca	gtactactat	atttaattga	gttaataatt	agggccaaat	taacatggac	1080
agttattcct	gaatgcaaat	taactcatta	aacgatttaa	atttccattt	ttcagttctac	1140
cacatttttag	ctaacaagac	acaaaaagta	taagtcaaaa	tactaagcac	aggaattcca	1200
aaaagtaagc	ttctttaatt	cattactgaa	cttaagaact	ttaattaaga	aaaataaatg	1260
ataacagcaa	aggtctagct	gagtaggcag	agtgttagat	agctcagggt	tgtttttcca	1320
agctctagtg	ttcaagttaa	atttatttga	cacaggtatc	ttttgctgkt	ttctactcga	1380
agaataattt	aacttgatag	gcttacaaga	ttgcacagag	tgaacagaat	tgagccaata	1440
gaatacagaa	tgacaaacca	tacmagcaaa	tgctgctagg	gaattccttg	gcaaaaaatgk	1500
tttattagca	tactgacaaa	tttgatttct	atcacttggc	cttaaacacg	aagaaagtgg	1560
gcatgaagag	atgtgtagtt	atttgtgcct	atgttgga	ataaatttat	ggctatacat	1620
gatatttctt	catacctcaa	aaatttttatt	gtccagtata	taaaaaagcc	attctttaaa	1680
aacctgacac	tgaataaaaa	gtatagcctt	caacttcatt	aaaccggcac	ga	1732

<210> 80
 <211> 1419
 <212> DNA
 <213> Homo sapiens

<400> 80

aattcggcag	agattttacct	tagcttactg	taattttttt	aacttaataa	gcttttttaac	60
tttttttttaa	acttttctgtc	ttttttaata	acacgtagct	taaaacagcc	tcataatatg	120
gatccactgt	agtatatgtg	gtctgttgtg	ttgacagaaa	tgtcattagg	tggtgcatga	180
ctaattactt	ttgggcctca	gcctcatctt	gtactgtttt	tccccttgct	ttcctttgct	240
ccagttgtgt	ggggcctcct	tcatttctct	gtgtccacca	tattctccac	caggaatctt	300
ggcacttggt	cttttctctt	gcctggaatg	cctttctttg	ttaacagtta	ttcctgggtc	360
ttagagtttg	gctcaagcat	cacttttaat	gaaattttct	gtgtgcgtgc	ttgcacattt	420
tcataagata	aagagatttg	actgtactga	tattcatcac	cgactccaac	aagagcgaaa	480
ctccatctga	aaaaaaaaaa	aaaacaaaaa	agttacaact	ttggcaccaa	ctcaggccta	540
agtgtcatct	tccttgaatt	actcctgtgc	ttctgcatgc	atctatctct	tctctattat	600
ctctttggat	gtctatgtcc	ccttccaaac	tctactgtat	taaatgtcct	gttatgatgg	660
tcactcacac	cctctcaggt	gttttaggaag	cccaataaca	tcaattgagg	acgtaagtaa	720
gagatccagt	cctcagcctg	taatcacacc	tttctgcccc	ctgaaaagat	ttaccaccat	780
aatctgaagc	atgtcctcct	aaatggaccc	ataactaatc	atagttcact	cattagcttt	840
catatatttg	atgtctccag	tatcaacacc	ctcccagata	ccccatccag	tatgtctagt	900
tatcgatttg	atgccaccac	ttattgggtc	ctgattcttc	atatggccaa	aacaaccctc	960
tggaatatcca	cagtgaaat	tatgtcaata	ccaacgtcat	ctcagctgaa	gcagtggtgca	1020
tggttacagc	tgctaagatc	aaaaaccttg	ggctcatgcc	cgattcctct	ttcatgctcc	1080

tatcatccac	attagaaaat	ctagctgtct	gcaaggcatg	gtggctcgtg	cctgtaatcc	1140
cagcacttgg	ggaggcagag	gccggcgagt	ctcctgaggt	cgggagtttg	agactagcct	1200
ggccgacatg	gtgaaacccc	gactttacta	aaaatagaaa	aattagccga	gtgtgggtgg	1260
acatgcctgt	gatcccagct	actcgggagg	ctgaggcagg	agaatcactt	gagcccggga	1320
ggtgaagggt	gcagtgggct	gggattgtgc	cactagactc	caggctggac	aagagagtga	1380
aactccgtct	caaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa			1419

<210> 81

<211> 1052

<212> DNA

<213> Homo sapiens

<400> 81

gctgccgtgt	gcacggccgt	ctggtctctc	tcccacacgt	gtgcgcaacc	tgtcatggag	60
atgtgagggc	cttgtgtgtg	cttctgtgtg	tgactgtgtg	actgcgggtc	cagacccccg	120
cctggcggtg	atgtgggccc	ttaaatcact	cttcctgctc	acccccctcc	cagtgattcg	180
gttttacttt	gcagcactgt	ggatccgggc	agctgggcgg	cttctcgggg	gtgggggatc	240
ccccaccccc	cccacaagtc	tggccccagg	gttctcggag	gcaggggggtc	tctgttagtg	300
cgctccctcc	agctgcaggc	acatagcccc	agctcacagc	tcgcctgagt	cgacgccggc	360
tggggtgaaa	gctccaagtg	ggcctctggc	cttcccgtctg	ctctgggtcc	agagtgtctg	420
gagcatgtgg	cacagaccag	ggccccctgt	cctccgagga	gggtgggaca	tcctctctgt	480
ctcacgcccc	tgggtggaga	ttctgggtgg	cctcctctcc	ctgtttgcca	aggtcaaagt	540
gggccaaggg	tgcaggtgct	tagcctgggt	ccctctcccc	ggccccgagg	ttctgtgggt	600
tgggcagatt	ggagacagga	ctcgtgtaag	ggctctgtctg	gggtgaagga	tggagacaga	660
gaaaatcaag	atcctttcac	aagttaattc	tacgtctgct	gagccccagc	ccccgacaca	720
tcaccctgag	gaggtgctag	gcttctctgg	gccccctgtg	ccccatccac	atgttgacaga	780
gtaaatctgg	ccccttggac	ctgggggtccg	agatggacgc	ctggctgccc	ctcctggact	840
gcgggtgaca	gctggcgaga	cactgcgggg	cttgggtgcg	gggagatgga	gtggggctga	900
gctgcatttt	tccagccacc	ccacatccca	cagaagggga	gtcatggtca	gtgccttgag	960
ctggaaagac	gggcaatgct	tccggccccac	accaaccaag	aaaaccacca	ggggctcatt	1020
catcctctca	aaaaaaaaaa	aaaaaaactc	ga			1052

<210> 82

<211> 992

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (405)

<223> n equals a,t,g, or c

<400> 82

ggttccagcc	caccccatcc	cacacccacc	tggtcatgt	ctctctgacc	tcagttcccc	60
cctgcacccc	cagggatggg	tgggaaggg	ctagaaggta	tggacctgga	gtgggtcact	120
tctgggtgg	aatctggcta	gtcagaagca	tgagtgatcg	aatgaacaag	aatgctctgt	180
aaactctgag	acctttggag	gctgcagagg	gagaggggag	cagaactcca	gagatctgca	240
tcttgtcaga	ggagtccatc	aagctgattt	ggggagaagt	ccccgcactc	ccccagctcc	300
ccggctctcc	cagcagctca	tctacctgcc	cccaccctgg	ggcacctgca	aagctgttac	360
catggactcg	gatttggatt	tcttcgactc	ctacagcatc	actgnctgcc	gcatcgactg	420
tgagacgcgc	tactggtgga	gaactgcaac	tgccgcatgg	tgcacatgcc	aggtcaggcy	480
kggggytccg	agcatactcc	tggggctctg	ggsctttgct	gccyttcact	agctccccat	540
ccatatcaat	ctcccttccc	atcttctccc	agcttacacc	ttctaggcct	ttgggtactac	600
caccatcacc	agacccttg	aattcccatc	ctgcatcatt	gtcttttctc	ctctgtaggg	660
gatgccccat	actgtactcc	agagcagtac	aaggagtgtg	cagatcctgc	tctgggtgag	720
cgccccctggc	ctggggcag	ctgggggagg	gaaaagggtg	tgccagccac	gtgcgcagga	780
gtttcagggtc	acgctcccag	aagcctcaca	taactcctgg	actgggctgc	accctctctt	840
gtgtctgaca	ttaaagctga	gaatggtcag	tcatgggtgg	ttacacctgt	aatcccagca	900
ctttgggagg	ctgaggtggg	caaattgctt	gagcccagga	gttcgagacc	agcctggttt	960
catggtgaaa	ccctgactct	atgaaaaaaa	aa			992

09650082.091201

<210> 83
 <211> 1229
 <212> DNA
 <213> Homo sapiens

<400> 83
 ggcacgagaa aatacaaaaa ttatccaggc gaggtgggtgc acgtgtgtag tcccagttac 60
 tcgggaggct gaggtgggag gatggcttga atctgggagg tgaagattgc agtgagctga 120
 gatcacacca ctgcattcag tctgggataat agaacaagac tctatctcaa aaaaaaaatt 180
 gtatacttta ttgactcatt tatgtctgat gggatattttt gattacaaat tgttttagtca 240
 ctactttaag gcctgcttta tttttttctt aattttattg actcatttat gtcttagtct 300
 tttttattac aaattattta ttgttcagtc actaccttag agcctgtttt attttttctt 360
 aattttatta aaggatgata ttgatgatga aatgtcttac gatgatcatt tagaggttta 420
 ttttgaacaa ctggcaattc cacgaatgat ggaataaaac atatgaagta gaaggactgg 480
 aacctccaga aaaagtactt taagttacct acagggtgat ctagtcagggt atgaattgat 540
 aagaaatgcc tgcaccttcc ctcttcccta tctttccctt gcctacagaa aattaaaagg 600
 caaaacaatg gacatctaca tattcttcat tcagatcaac cagtggctag catttgccac 660
 cttttgcagt ttcttttctt ttccataagt actttcttct ctgaatcatt tgaaagcaaa 720
 tgaaaacagt agcctaaagt gtcagtttca accagaaaat aacagctctg atttctcatg 780
 gctcacactc ttctgaaacg actcgggtag aggctgagga aggccgtgtt gtttgtctac 840
 ctgggactag taagtataga aatagaattc ctttgttctt aaattctacc tttgacttta 900
 cttttaaaat ataatttctt tggtagcatt tagctcatgc ctgtaatcct agcatttttg 960
 gaggccaaag agggagaatt gcttgagccc aggagtttga gaccagcctg gacatcatag 1020
 ggagactctg cgcacgcaca cacacacaca cagcgcacg ctaaccggga atgggtggcat 1080
 gcgactgtgg ccccagctgc ctgggaggct gaggttggag gatcatttgg acccaggagg 1140
 tggagactgc agtgagccat gattgcacca ctgcactcca gcctgggtga cagagcaaga 1200
 ccctgtttca caaaaaaaaa aaaaaaaaaa 1229

<210> 84
 <211> 1811
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1804)
 <223> n equals a,t,g, or c

<400> 84
 tccacggatt ctctgccaca aggatatgtg gctcagtggt gtcaagttcc ttccaaagaa 60
 cctgcacttg gtctgcgtgg acatgccagg acatgagggc accaccgcgt cctccctgga 120
 tgactgtgcc atagattggc aagtttaagag gatacaccag tttgtagaat gcctgaagct 180
 gaacaaaaaa cttttccacc tggtaggcac ctccatgggt ggccagggtg ctgggggtgta 240
 tgctgcttac taccatcgg atgtctccag cctgtgtctc gtgtgtcctg ctggcctgca 300
 gtactcaact gacaatcaat ttgtacaacg gctcaaagaa ctgcaggggt ctgccgccgt 360
 ggagaagatt cccttgatcc cgtctacccc agaagagatg agtgaaatgc ttcagctctg 420
 ctccatgtc cgcttcaagg tgcccagca gatcctgcaa ggccttgtcg atgtccgcat 480
 ccctcataac aacttctacc gaaagttgtt tttggaaatc gtcagtgaga agtccagata 540
 ctctctccat cagaacatgg acaagatcaa ggttccgacg cagatcatct gggggaaaca 600
 agacgcaggt gctggatgtg tctggggcag acatgttggc caagtcaatt gccaaactgcc 660
 aggtggagct tctggaaaac tgtgggcact cagtatgtat ggaaagaccc aggaagacag 720
 ccaagctcat aatcgacttt ttagcttctg tgcacaacac agacaacaac aagaagctgg 780
 actgaggccc cgactgcagc ctgcattctg cacacagcat ctgctcccat cccccaagtc 840
 tgacgcagcc accactctca gggatcctgc cccaaatgcg gtcggagcgc cagtgaccct 900
 gaggaagccc gtcccttata cctggatatc acggttcccc agagcttttg ggaccacgcg 960
 aaaacctcca agatattttt cacaaaatag aaactcatat ggaacaaaat aagaaacccc 1020
 agccatgaaa tctaccatga agtcttcaag ttcattgtcac tgacaagctt gtgcaaagca 1080
 gccaccttgg accataatta aatcaaggac attttctttg agacattcct tatagttgga 1140
 gactcaagat atttttgggt catcaggtgt attcccttgc atgggcagtg gcttttatag 1200
 gagcattagt cctcattcgc tgaaccctgt tgtttagggt taatttaagt tttacataga 1260
 gacccatgta tgactgcagc ccattggctg caagaccagg gaggaaagtg gcaagctgta 1320

gaaaatgttt	acacgcatgg	aggggcattg	ctccagccct	cagagcgtcc	ggagcagcag	1380
grtacatggg	tgggaggttc	attcagcacc	caccagtcag	gtatgttctg	agtgaaccca	1440
cagcagtcgc	agaatgagca	cctggcaggg	tgggtttcct	aggaataatt	tattatTTTT	1500
aaaaataggc	ctaataaagc	aataatgttc	tagacatctg	tctaagtaat	cagactcagg	1560
ttccacacac	aagcaacaac	tcggtggcct	cttttctatt	tcaatgtgct	actaagaacc	1620
cttggaatga	acatactagt	tagttaatga	attctgtgaa	ttctgtgaag	agtaaatgtga	1680
ttgaaaataa	gtcataaacag	ctgtaaaagt	gaccacaatg	acatgaaata	aatttaataa	1740
gtctagatca	gcaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1800
aaanaaaaaa	a					1811

<210> 85

<211> 1305

<212> DNA

<213> Homo sapiens

<400> 85

ggcacgaggg	gattttgggc	ccaggagaaa	cacttacatt	ctggtgcctt	gtcttttgc	60
tgtacagaat	ctgtagtgat	tttgggtggc	agtaaagtcc	agccatttct	caaaccacc	120
tcggaccacc	cagagtttcc	tcttgggtccc	tgtctactaa	gagtcatgaa	ggcaggggtgc	180
tctgcccact	ccatcaccat	gaagcctggg	attggggcac	gaggaacaaa	cagcagatgc	240
ccttgccctc	cagtccaaga	aactgcttct	tgaaatggat	ttaacaacag	ccactcacct	300
tttctctctg	agcctgctct	ctgatcagct	ggatccccac	gtgagcaaca	gctggcccag	360
gaaaggctgc	ctgcagagga	caggtgtgtt	gggcgtgttg	agagccttga	agtgactacc	420
tgtatcttag	atctgagtac	aagcctgagg	cttttgcctt	tgtctttttt	gatgagggct	480
cactccagct	tcatatgggtg	ccaagacgtt	gctgcttctg	aggttggctc	taacatctct	540
ggtcttttaga	gccaccagat	ctctctggcc	catacagata	tcagagcaga	cggaaatttc	600
tccttgcaag	cgctcagctc	catcccagca	agtcaaagac	ctcctggcca	agtcttgcct	660
tcttaagtct	ccaggaacgc	tgcagggaaa	acccagctga	ggcctgggct	agactgtggg	720
gaggtcacta	gatttctactg	ctcttcccc	acattaatac	cttttccttc	ctcagagaga	780
aatctcccct	aacctgaatt	gcagccccct	ccagtttgct	ttcctttggc	cttccagacc	840
ccaggaagtt	ggccttccct	tcctagtgtc	atggtttctg	ccattggcca	tgatttcagg	900
gagctggctg	aggccggctg	aggccacacc	tgtgccagtg	gggcttccct	ggtgctgcag	960
cacttgtaaa	ccacacacac	agcctctctc	cctggacata	cgtagcaca	ttggcattca	1020
gtattgggtg	cctggcatgg	taggtactac	ccaatgaaga	gtgtactata	tattttcatt	1080
actataggcc	atacttatac	agacgtgtat	atatattttat	ataagatcta	cctatcttag	1140
gatggaacct	tggggaaaaa	taaaattgag	gggaagtaaa	aagtatgtaa	cacttccagt	1200
tgtgagccaa	gatttgaacc	agagagcagc	caggagcttc	ctgtcagtaa	ccatgttttc	1260
aataaatact	ctttcatgta	aaaaaaaaaa	aaaaaaaaaac	tcgag		1305

<210> 86

<211> 1434

<212> DNA

<213> Homo sapiens

<400> 86

ccacgcgtcc	ggggagattg	agtttagagtt	gtgatgtttg	ggctagagga	tgacaagatg	60
agctgctttg	tcggttccag	atatctccag	cccagcagag	atggccctct	gcagtctagc	120
cgtattttgc	ccttccacca	ttcttggctg	tgacctgggtc	cagctggggc	ctgaatgaat	180
gtttgcttct	caggccagta	ttctccccctc	ctcaccaagc	cacctccaca	cagctctaag	240
gaagctcccc	caggtccagg	cctcagggga	gccctgccct	caggccgacc	ctactgcctt	300
ttcagagccc	tccctgccct	cctcggaagt	tgctgatgaa	cctcctacct	tcaccaagga	360
agaaccagtt	ccactagaga	cacaggctgt	tgaggaaagag	gaagactcag	gtgccccgcc	420
cctgaagcgc	ttctgtgtgg	accaaccac	agtccgcag	acggcgtcag	aaagctagca	480
ccatcccggc	cctccgcctc	ctggccctgc	ctctattttat	tgcattcttg	ttctggccgc	540
gccgcgttgc	tggggtaagg	gcaagcactg	gggtcaagag	cctgcacaca	tgagccttcc	600
gggctggaag	gctggcgtag	gacttggggc	tgtagcatca	tcttcctgac	cctggcacct	660
gtgtctactt	gtccccgaga	agaggagcgc	tcatgtcttt	tttgcacccc	aagttggctg	720
gagcatcggc	caccccaaga	ttcatctgtg	acctccaggc	agcagtctct	gctccagaat	780
ctctggacgg	agctgttggc	agcttctgcg	agaagagaga	gatgtggaag	gcacctttta	840
gaagagagcg	tgcctcaggt	tactgaactt	gaacggagac	tgtagactcc	cggactttcc	900
cctaggactg	ggggccctgt	aggctgctgt	tggaggactg	ggtagagaca	ttggagggaa	960

gggaagggct	tttctccaca	caagggcaga	gagtcggtct	agattttcttg	ctgtcctgcc	1020
agctctgccc	atgcctgagg	tggtcctacc	tctcacgggc	accctagctg	ctgacagccc	1080
tttgtggccg	ccgtcccat	cccctgccct	cagcacacac	atctgcacac	acgcagcttt	1140
gttctcacct	ctacctgtca	ttccagcatc	cctgcctctt	gtcacaaact	gccccagcaa	1200
gaatttgagg	ttctgacaac	agtacccatc	ccccacagta	ccccttcagc	tcagtttcta	1260
gaaagctccc	ttttctttga	aatctgcatg	ttgaattgaa	ctttgtgatt	ttattttttg	1320
tttcaaaaaa	gtttaagaaa	atggaaatgg	gcaacagtga	gtgaagacat	attttagcac	1380
tgaatagaat	atttttaaaa	ttaaactatt	tgaaatatga	aaaaaaaaaa	aaaa	1434

<210> 87
 <211> 910
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (17)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (857)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (862)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (883)
 <223> n equals a,t,g, or c

<400> 87						
ggtccggaat	tcccggntcg	accmacgcgt	ccggccgcca	tctcaggtct	cttggttttg	60
cagggccccc	cggagaaaaa	tgacgacccg	tttctgtaat	ccttatggga	gaccaacctt	120
gtgcctccgg	gagatccact	ctcccacctg	gaaacgcacg	ggaagccaag	cctccaaaaa	180
agcgtgcct	cctcgtcccg	cgttgggatt	atccggaagg	aactcccaac	ggaggtagta	240
ccactctacc	ctccgcacct	cctcctgcat	cagccggcct	gaagtcgcac	cctcctcctc	300
cggagaagta	gagaaataaa	tttctcccac	cctaaaccag	tctttgagtg	attgcagtat	360
gactccattt	ccctggtgca	ttcatataat	agttcacctg	gtgaaaacaa	tgaagattat	420
ttacaatgct	accctgcttt	ttctggtgtc	ctgaacctgg	aagttgtgct	ttttaagtct	480
tatgatgtaa	tcagcacgat	ttcacttcct	gaatttcgat	gaattctaag	acatgggcaa	540
gatcgggttg	taagacctct	gagatttaag	gccatgccct	ggatcatggt	gaacttacca	600
aagcaaacaa	tgctgtgag	atggtcctgc	agcagccaac	cagtgaactc	ttttggtgac	660
atcctgttct	tgttgtataa	ctttatatct	ctataaatcc	attaaggccc	caataaagtt	720
tgtctctaaa	gcgctgtggt	agatctatat	ggactacatc	tagtaaaatt	gtgaattttw	780
aagtaaatat	tttataagga	actcctatgt	aaagcmttac	ttaaaattar	gtggttgaaa	840
tatggacctt	ctttccnaac	anttattcat	ttattttatg	tcntattttat	tccattattt	900
taggggaaaa						910

<210> 88
 <211> 1359
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1005)
 <223> n equals a,t,g, or c

0950082-091201

<220>
 <221> SITE
 <222> (1128)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1342)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1343)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1344)
 <223> n equals a,t,g, or c

<400> 88

tcacgcgtcc	ggggctgcag	taggtccccg	caaccgcagg	ctcgcggcgg	gcgctgggcg	60
cgggatccga	ctctagtcgt	aatggaggcg	ggcggccttc	tggactcgct	catttacgga	120
gcatgcgtgg	tcttcaccct	tggcatgttc	tccgcgggcc	tctcggacct	caggcacatg	180
cgaatgaccc	ggagtgtgga	caacgtccag	ttcctgccct	ttctcaccac	ggaagtcaac	240
aacctgggct	ggctgagtta	tggggctttg	aagggagacg	ggatcctcat	cgctgtcaac	300
acagtgggtg	ctgcgcttca	gacctgttat	atcttggcat	atctgcatta	ctgccctcgg	360
aagcgtgttg	tgctcctaca	gactgcaacc	ctgctagggg	tccttctcct	gggttatggc	420
tacttttggc	tcctgggtacc	caaccctgag	gcccggcttc	agcagttggg	cctcttctgc	480
agtgtcttca	ccatcagcat	gtacctctca	ccactggctg	acttggctaa	ggtgattcaa	540
actaaatcaa	cccaatgtct	ctcctaccca	ctcaccattg	ctacccttct	cacctctgcc	600
tcctgggtgcc	tctatgggtt	tcgactcaga	gatccctata	tcatgggtgc	caactttcca	660
ggaatcgtca	ccagctttat	ccgcttcttg	cttttctgga	agtaccccca	ggagcaagac	720
aggaactact	ggctcctgca	aacctgaggc	tgctcatctg	accactgggc	accttagtgc	780
caacctgaac	caaagagacc	tccttggttc	agctgggcct	gctgtccagc	ttcccagggtg	840
cagtgggttg	tgggaacaag	agatgacttt	gaggataaaa	ggaccaaaaga	aaaagcttta	900
cttagatgat	tgattggggc	ctaggagatg	aaatcacttt	ttatTTTTTT	gagattTTTT	960
TTTTTaaattt	tggagggttg	ggtgcaatct	ttagaatatg	ccttnaaagg	ccgggcgcgg	1020
tgctcacgcc	tgtaatccca	gcactttggg	aggccaagggt	gggcgggatcg	cctgagggtca	1080
ggagttcaag	accaacctga	ctaacatggg	gaaaccccat	ctctactnaa	aatacaaaat	1140
tagccaggca	tgatggcaca	tgcttgtaat	cccagatact	tgggaggctg	aggcaggaga	1200
attgcttgaa	cccaggaggt	ggagggttgc	gtgagctgag	atcgtgccat	tgtgatatga	1260
atatgcctta	tatgctgata	tgaatatgcc	ttaaaataaa	gtgttcccca	cccctgaaaa	1320
aaaaaaaaaa	aaaaaaaaaa	annnaaaag	ggcggccgc			1359

<210> 89
 <211> 2253
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (28)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (100)
 <223> n equals a,t,g, or c

0050056601001

09950082-091201

<400> 89

atctgtgtgc	agcaaccaga	aagggatnaa	cttggccctc	ttgcgggctg	ggacaaggtc	60
tcttccttac	cctttctgtt	gccagtcagc	aacctgtaan	tcacattctc	ttcccagtga	120
atccctggga	gcgcctgacc	ctgggtgggct	gttcagcttc	ctgctgctgg	ggccagcaat	180
ttttgaggat	ttatcttttag	gccaggcttg	ctccgtactt	atccctgctc	tcccatttct	240
ctcttgtttg	agagagaatg	aggaagcaaa	gagtgaagaa	gaataggggc	tgaagacgcc	300
actcccagat	ggctctttct	atcctgctct	tctgttgaaa	cacacgtgct	gtgggcctca	360
ggcgtttctg	aagtgtctct	tcttgattg	gacaggagat	cagcagcgtg	cacatctgct	420
gtggtctgaa	gtggtttgca	ggtcagcctc	ctctccctag	tgtagagcaa	gccagtgtcc	480
ttcgagggaac	ccaccgggct	ggccgggaag	ttttacagca	aggcgcctgc	cttgggataa	540
ttccttggtg	aaattcacct	tcccccgcc	tctgtctgga	gccccatcct	gtgttatctg	600
tggtttttgg	accctaata	tcagcttggc	tgtaggactc	cccagggttt	ggtatgtgct	660
agaacaatgg	gaggctgtga	tttgcctgtg	aagctcacat	ccagccttgg	aatctaacgg	720
gcattcacaa	cccagattac	cactttccac	tccctgctta	ggattctgtt	ccctgggctg	780
aaactgaaat	aagctaattt	tttgggtcay	ggtggcagta	ggggaaccta	ggagggtgtg	840
agtggcattt	gtcagggaat	tagcccatga	cgtgtttctt	gaaccctact	ttctggaagt	900
ggagttgact	ctggaagttt	tctagcaact	gaacaaaagc	tcaggtttgt	cctgggtcatg	960
cacatgcctt	aagccagttc	cgtcttccct	agaccttggc	atcctgtgct	tctatttctt	1020
ggaatacgtt	ctcctctgac	ctgcctgtac	cacgtgggtc	ctcttcaagt	actgttttga	1080
agctgggctc	ttttgtgtag	ctcccaccca	cctgtagggc	tagctcggct	taagggaact	1140
ctccccattg	gcaaacggga	cccggccgcc	gccaggactg	tgtttccaaa	ggttccccgc	1200
ccccaacccc	agcatcagcc	tgtagctccc	ctgctgaggc	agtgtgggta	tgttcccagc	1260
agtgggggtc	agacgccctt	cctcagaact	ttctagtgtc	cctctacctg	actcctgact	1320
tgtattcctt	ttagcagtag	ccttcttccc	tcggggagcc	aaagagtgtg	gtgtgtggcg	1380
ctatattgtg	gctgctattt	catctgggtt	cttttaattg	gaggaactca	catactgact	1440
tcagtgggac	tcggtgagcc	ggggccgtct	gtgtggtggg	accccttcta	gcgggactca	1500
gtgagctggg	gccgtctgtg	tgggtggagc	agggcctctc	cctttagtgg	agccaggttg	1560
tcggggccccg	aatgtcactg	gtggatctaa	gaagggtgta	gtggtctgac	accaaacaat	1620
gccgcaggga	gggctgtggt	gccgggtgct	ccaacaagga	cagccctcct	tgaccctgaa	1680
aggaacactg	gcttgaagga	ctgcagacag	gctctgaggg	gcacgccctc	ctcagcgaga	1740
ggcagcaagg	tggccacagt	gtcactgggc	aggtgcttct	caccacggga	aagccgccga	1800
cctgtgactc	gcttgagatg	ggaaagcggc	gccacagacc	ccgggtctcc	ttggctgtct	1860
gtggggccgcc	cctggccacc	ttgtcctggc	tcgcagggtg	caggagcgcc	tcgttctctg	1920
ggtggccggc	ttgctgtccc	ggtttgggct	gtcttaccat	aamaccgtcc	cagggtctctg	1980
caggccactg	tgaacgctgg	ctccctgggc	agtgtcctc	cgtgtggact	gtgcctcagg	2040
ccagggtctca	ccagctgggg	tcctgtccgg	aaggatggga	tctttctggg	actgcgccgg	2100
acagagtggg	gagctcctag	tttgtggggg	gaagctttga	tatccatgcc	acgtccatcc	2160
acccaccccc	ttttcgtcac	gagcacaatg	gtcttacatt	ggatttttgt	aaaaaaataa	2220
aaataaatgg	agactttaac	tcaaaaaaaa	aaa			2253

<210> 90

<211> 746

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (662)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (672)

<223> n equals a,t,g, or c

<400> 90

gttaagactc	ttttgattcc	tgatttagaa	tgtataatag	gtgctttata	attgattawg	60
tccccagtra	gactcttaag	ctttttttgag	tacaagaaca	atgccttata	tgtattcatc	120
gcccttgcca	atattttaca	catagtargt	cttgtcctag	argcagaacc	aattttggaca	180
gcagttttam	caattcagac	accctgtaac	atgttgcttc	tgtacaacatc	catggctttg	240
gacttaagcc	cagtgaagac	acattagtgg	ttatgagttt	ctccctgtaa	ggtttttcct	300

ctttgtctcc	tttctatctt	ttgggtacgtg	agcagcctct	gtctctctgt	aggggaagcaa	360
cagacagctt	cagtgagtag	aaatgtttata	ttcacatgtg	gaacatagcc	ccagagataa	420
tcatatgtac	cagtgatccg	tcagtagatg	ctattacccg	tgtggttctt	ttatcaaagg	480
aattaaagttc	tcttgatgtg	tttaataaaca	gtactttttt	ggccagctct	ggagtggatg	540
aataggtgtt	tggatgtctg	tctagattga	cagcttttaga	ttgctttttt	cctgaaatct	600
ggtgattcca	gatttacagt	gaattttctc	ttaagttgtg	ttttcaagtg	atcacaccga	660
antggtgggc	ancaattctt	tctttttacca	aaaaaaaaaa	aaaaaaaactc	gaggggggggc	720
ccggaacca	attcggccta	tagtga				746

<210> 91
 <211> 1728
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (165)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (167)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (198)
 <223> n equals a,t,g, or c

<400> 91						
gcgagatcg	aaccctctcc	tccgaacccc	tcctttcgcc	ttccccgcct	cctccccctcc	60
gcctcgagca	ccgcgcgcgc	gcattcgggc	ccagccaccg	ctaacactac	aggctgctta	120
ccccgcgcc	ctccacccta	cccctggcgg	cctcaggcga	cgccnantga	ggctgaggct	180
gggggcgaat	cgccgcganag	ctgggtgtcg	gcgggcgcatt	ctgattggac	agcggggaag	240
ccgctcagcc	tgttggcccc	getgatcccc	ccccgtagcg	cagggcagcc	tttaaccttt	300
agccccagtg	ggcgccagcc	actcagatcg	cttcttgttg	gtatgtgtag	cggcagtggc	360
cgccggcgga	gcagtctgag	cccagcagtg	aggccgggga	cgggagctga	gcgtggaggc	420
ctcatgatgg	ggcaccctgg	catgcattat	gccccaatgg	gaatgcaccc	tatgggtcag	480
agagcgaata	tgcctcctgt	acctcatgga	atgatgccgc	agatgatgcc	ccctatggga	540
ggggccacca	tgggacaaat	gcctggaatg	atgtcgtcag	taatgcctgg	aatgatgatg	600
tctcatatgt	ctcaggcttc	catgcagcct	gccttaccgc	caggagtaaa	tagtatggat	660
gtagcagcag	gtacagcatc	tgggtgcaaaa	tcaatgtgga	ctgaacataa	atcacctgat	720
ggaaggactt	actactacaa	cactgaaacc	aaacagtcta	cctgggagaa	accagatgat	780
cttaaaaacac	ctgctgagca	actcttatct	aaatgccccct	ggaagggaata	caaatcagat	840
tctggaaagc	cttactatta	taattctcaa	acaaaagaat	ctcgtctgggc	caaacctaaa	900
gaacttgagg	atcttgaagg	ataccagaat	accattgttg	ctggaagtct	tattacaaaa	960
tcaaacctgc	atgcaatgat	caaagctgaa	gaaagcagta	agcaagaaga	gtgcaccaca	1020
acatcaacag	ccccagtcct	tacaacagaa	attccgacca	caatgagcac	catggctgct	1080
gccgaagcag	cagctgctgt	tgttgacagca	gcagcagcgg	cagcagcagc	agcagctgca	1140
gccaatgcta	atgcttccac	ttctgcttct	aatactgtca	gtggaactgt	tccagttggt	1200
cctgagcctg	aagttacttc	cattgttgct	actgtttag	ataatgagaa	tacagtaact	1260
atttcaactg	aggaacaagc	acaacttact	agtacccttg	ctattcagga	tcaaagtgtg	1320
gaagtatcca	gtaatactgg	agaagaaaca	tctaagcaag	aaactgtagc	tgattttact	1380
cccaaaaaag	aagaggagga	gagccaacca	gcaaaagaaa	catacacttg	gaatacaaaag	1440
gaagaggcaa	agcaagcttt	taaagaatta	ttgaaagaaa	agcgggtacc	atcgaatgct	1500
tcatgggagc	aggctatgaa	aatgattatt	aatgatccac	gatacagtcg	tttggcaaaag	1560
ttaagtgaag	aaaagcaagc	ctttaatgcc	tataaagtcc	agacagaaaa	araaraaaaa	1620
gaagaagcaa	gatcaaagta	caaagaggct	aaggaatcct	ttcagcgttt	tcttgaaaaat	1680
catgagaaaa	tgactttctac	aaccagatac	aagtaagatg	tttagtgt		1728

<210> 92

095008-091201

<211> 1796
 <212> DNA
 <213> Homo sapiens

<400> 92
 aggggcaaac ctaacctggg atctgacggg atgcgttttg ccagctcaga tctcctctgc 60
 tactggaaac ttgcattatt tacagccatt aggagctccc tggcttccat tccactcatg 120
 actagcttta cctctttgac cccactgtat tattgtctag ccaggttcag ctgaatcttt 180
 caacacaaaa tatacaggga accccttcct ggggaacttc ctttgttatt gaggtcttcg 240
 ctgatggctt cttccatttg atactcagtc tcagtcacag taggattacg gaatcttttg 300
 ccagagtatc aatctacatg ggtgctacac attactgaaa aaaattagga acatgggtgct 360
 agttaattca agtcttcacg taaaacttct tctatcatag tggacattaa aaaaaatctc 420
 tctgcaaagt gcattgaccc tacctctagt agatgaatgt tgaacaagta gcctatctag 480
 gaagcaagtg actagcatcc atgggcatcc cacagggtgt agtccagccc cgatcttggt 540
 ggttgggatt gatgttgctg ccaagtcctt ccgtttcatg ttcaggctct gcctatgttc 600
 ctgggtgctg gtacctgatt tttcaggatg ctgacattta cttcttgccc acaacaccat 660
 ataccctaag tcttgccaac atctttgaat gtctctgtct ggtctgtctc tctccggttg 720
 ttcttttact atgtcccaag tgcattgctt gtccagtatc tgcctaagtc tcaggatamt 780
 gatttttagct ttttactagg tcttgacatt cccgtagttt cctcttacct ttctggacat 840
 gccagacaaa ctctgacctt aggttctgtg aaaactggta cctgcagaat tcctcagtgt 900
 ttgtttatat gaaagtccat tgtgcctctt gattgtgggt gagttgagga aaagaggtaa 960
 agcagtgggc agaggttgca acatttatctt gggtatagga cacctttgct actggagcat 1020
 cttgtagggt aatgtagttc agaacatgca tggagaaatg ctgccataga gtagtagtga 1080
 catttgggac ttgaaaaaaaa tcttaagagc aggtataatt ccctcaaca cagaagaaca 1140
 tcagtgcctt agaatgtttg attttgaact ttcttgatgt tttctctgcc gttctgtagt 1200
 gttattctaa ttaaaatctt tccctaaac tctgctcttt tttttccaat tgagcaaat 1260
 cggcatttat tgaggcccta ctacatgtca tatgctgttc tatttgctgg aaacacaaat 1320
 gtgaatatgg taggcctgcc cttaaacaat gaattacagt gtaaaatgaa ctttttataa 1380
 agctggctct atatcaatct aattattttg tttttcttca tttcaggcct aagacagctt 1440
 tattttcttt ccactccaaa taatgaagaa tcccttagg gcaaagaagg aatttctgag 1500
 catgttataa aaaaatagaa aataggataa gttgcgtgaa gatttaatat ttctatacat 1560
 caaaacctac cataaacaat attaaaaggc aaatagtaaa cttggaagaa catttgtaac 1620
 ataaaagaca aaagtttaat atcataataa aataagcaca tagtagcttt tagtaaatca 1680
 ttgctgaatg aatgaatata tatatgaatt caaagcaatg aaaaaatcac cccaggaaaa 1740
 gatgtaaaca tttgacatag gacaagtcac caaaaaaaaa aaaaaaaaaa ctcgta 1796

<210> 93
 <211> 2166
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (20)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2164)
 <223> n equals a,t,g, or c

<400> 93
 ttggcacata cattacctgn tttctcatca attgctaaay catcaaacat ttattgagca 60
 tctcctctat gtaggggtata agtaatgctg aggtagtact cgtgacttac agtggtaaaa 120
 gacttaagtt ttagggcctg agccactgcg tctggccaga aatctcttaa ccatgggagt 180
 taagtctcaa aattctgggtg atacaagtgg ttgaaactta aaactgtatt taaaaaatag 240
 gattcgtgaa tttgagatag ttcataagtc tgcaaaaggc tgtataaata catattttac 300
 atttactatt attaattttg tagtaaatat gagtacagca ctctctttat ctgtggaaac 360
 ttcagactct cccctattac ttttaatttc gtgagacatt attaaatata agtgggctta 420
 cacatttgtt ttgctttact gacaaataat acacaacttg gaggcctttt tttcctttct 480
 attcttcttc taaatgttca acacttttct gattttgtga tttgagggtg ttttaatagct 540

0950082-091201

tectgaggct	ccattgagac	cgtatatacg	tgacacttaa	cagtctagcc	ttcctcggtg	600
catatagata	tatgatgggtg	gctttgcctg	tagtaaattc	atgccaaaac	ataggctttc	660
agtgcctatt	acatatgggt	ttcagctctc	tctactgagg	gatgtaggag	tttatttctg	720
aggtctgagc	ctcttttccct	ttacttccct	tactctttcc	taagccttct	ttataaaaac	780
tatgcatgtt	ctattgtttt	cctttttgat	tccctttctt	ttattatccc	cagtaggagt	840
gacttgtaat	tctcatatgt	tagaaaggca	grtctcctgg	ttgaagaaaa	gatccacca	900
agcaagtcag	catgtttaat	aatttttgag	ggggatctca	aatgtgggaa	ggattgttat	960
ataagacaac	caaattgatga	catgagacaa	taaatgctat	aggaattatg	gaggaataat	1020
tagctatttta	ttttcttgggt	tagggaagag	atattattag	ttgtagaagt	aattactaac	1080
ttctacattt	tttattgtgg	aaatcaaaaa	tatatatatg	aaaataaaat	gttataattg	1140
acttcagtgt	cccataaacc	agcttcaaca	attaccaaatt	tgtgaccaat	ctttacacac	1200
atgcacaggt	gtccctcagt	atctgtgggg	cattggttct	aggaccactt	atggatacca	1260
acatctatgg	atgctcaagt	ccctgatata	aaatggtgga	ctatttgcac	ataacctgtg	1320
tacatcccgt	attattttaa	tcacccctag	atcacttata	atacgtaata	caatgtaaat	1380
gccatgtaaa	taactgttat	actgtattaa	ggaataacaa	caagaaaaat	gtacatgttc	1440
agtacagacg	caattttttt	tgtgtgtgga	atattttcat	tccaagggtca	gttgaacca	1500
tggacatagg	aggctgactg	cgtgtgtgtg	tgtgtgtgtg	tgtgtgtgtg	tgtgtgtgtg	1560
tgcatacaga	cacacatatt	tctgaaatgt	aaatattctc	tttttaaaaa	aattattatc	1620
acagctaaac	aaattaccag	taattctttt	atcctcatat	acccgggtgtt	cagattttct	1680
agattggctc	ctaatttttt	tacagattat	ttgaatctga	ttcaattcat	gtactgtaat	1740
gtttgataac	ttaagtaccc	tttatagggt	ctcttttacc	tcttctttat	taaattcctt	1800
gtaatttggt	gtactaaata	gattgtcttc	tagaatttcc	tgtagtctga	attatgtagt	1860
attgtttcac	atgttccagt	gtcctcttat	ttcctgtgag	ttggtagtta	gatctagaag	1920
cttgattaaa	ttcagatttt	ctctcttttag	atcatcaact	ttagatcatc	aacttggatc	1980
atttgtttca	ttttgctttt	gatattgtgt	tttttagaat	tacctcttaa	aattttgatt	2040
taattttata	atcatgtaaa	atgtttataa	atttccaaat	tcagatcagc	aaaacacaat	2100
aaaatctatt	cagagaaggc	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2160
aaanaa						2166

<210> 94
 <211> 1287
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1281)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1285)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1287)
 <223> n equals a,t,g, or c

<400> 94						
aagaaatcgg	gcgctatata	cctgtaacag	gagacagawt	tggacamcaa	ggrttttaag	60
agycattggc	cattgtaaag	cattaagcca	gagctgggta	ttcattatca	gactarctac	120
atactagtcc	atgctagtgt	cagcctatat	taaaatagtc	tttccttgcc	atagtgtctg	180
cgaaaaccca	atcccttctg	atgaaacatt	gcttcttggg	aagacaagct	gaggaaagca	240
atgaagatcc	cagtgtcggc	ctttattgag	ctatgtatga	gggtcagggt	ccctcaactc	300
ctagtgacta	tgaagcagca	gtgtgatgsc	ttcgccctct	ttgcccctct	gtcatcaatc	360
ctttgcatgt	ggctatttta	agcttctcag	ctttcttttg	ggaggcttca	tgtgtaactt	420
attatagaaa	tgttactgaa	aagctgccta	aacaaaaaat	tgtataaagt	aggaatttgt	480
ataaaagtaat	actgttgtaa	atccatcttc	aagatgtaaa	gaatcaattt	gtaaaagtgt	540
tatttttca	tctcccttca	aatttatgtg	aacaagtttt	tcatgtttca	atattgtcta	600
cataggaata	caccttacgt	ttttatcagt	ataaatggaa	cattttaaac	cagtcaacaa	660

cagaacagat	aatccagctc	cctgtttgtg	ttctgggtta	atthttgcaag	gatgaagggc	720
tagaaagtgg	tgagtttggg	tgtgtttctt	atthttcagga	taaccggctg	cattgcagta	780
gaggaatgga	atgggtgaggt	catttgacct	gttccagggtg	agtggaggcc	aaagaacatt	840
gtttctgcct	ccccttggat	gggaaaattg	agaaattaaa	aagttgcctt	tccgaggaaa	900
caaaagtatt	tttctctatt	taaaataaat	gtccaaaggc	acccctctaa	acacccaaaac	960
tttttagctcc	tggcaaactt	acctagctag	aagttggaga	agagtgcggt	ttcaaaccat	1020
gcttcctttc	tgcccttgcc	aatacgttct	cactgactgt	gattctgctg	tgaacacaca	1080
cacacacaca	caaacacaca	cacaagcccc	ttctgtgtat	gatcaggaca	agtagttcaa	1140
cagttaataa	aaaagttaaa	ttattggatg	agaaagatat	atthaaccta	aatcataaat	1200
atgtawatcc	atthataaaa	cactaaaatt	gagaaaaaaa	aaaaaaraaaa	actcgagggg	1260
ggccccggag	ccaattcgga	nctgnan				1287

<210> 95
 <211> 1929
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (10)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (26)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1912)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1924)
 <223> n equals a,t,g, or c

<400> 95						
cacccccgan	gatcccaatt	tggtangtac	cctccaataa	tatatccaac	tatatattaa	60
aaaagcacac	ttgaggagct	agggaaactat	tttgaaaaat	atatacaata	tttaaagata	120
caaacagtag	tgcttaaaaa	tactacataa	agcattatth	taaaggttat	actggaaagt	180
gcaattttta	aatgagtaaa	acctctgtat	ttctgctggc	attaaggggt	gatgggtgta	240
ccatgtatca	tcattggcgg	actatthttt	aaaagaaatt	aaacactgga	tctctcctta	300
agccaacatt	gaaaagactt	gccgcacttc	tgagtccaaa	cactggaaaag	ctctcctttg	360
ccaccgttag	ccggggctca	ttctccatgt	gccttagcct	taaacatgcc	cccactccca	420
catctctcac	cctgtccctt	cctccccaga	ttcccaatcc	caccgcaatg	tttggcaagc	480
ctaggactga	taagtagctc	tgatagagga	gctgggtggc	tttatacttc	ttcctggggt	540
tttggtgggg	tttggtgttt	cgttggtttt	tgthtttttt	tttgthttgt	tgggggaagta	600
ttgtcttcta	cgtgtgctat	tttcagtagc	agagtaaagca	caaggthttta	atcgagttgc	660
ataagacacc	tttgcatagc	tatttaattg	cccaatgtaa	aactthtaatg	ccattthctaa	720
tgctthttat	cattthttgaa	gtatgagtht	gtagggcagaa	agaatgtatg	ttatcgtaga	780
caagaccccc	agagactctt	ttcagcagaa	agthtatgct	ctagthtgctt	taccatgtht	840
cttgcaaaaac	tgthcatggg	cctcaagggt	gttggaataca	ttatgtthtat	taaatggggc	900
tctyttcctt	tgctgtgcac	ttgatgggtg	aactggattg	gggtgtgcac	atccaggagg	960
aggaggagag	acctgtagaa	gtthtaaagat	agthttgtaaa	tatctthctaa	tgcttgthtt	1020
tagtccttht	atgttgagaa	agthcatggg	atgtagthtt	atgcaaaaatg	aaaccattht	1080
atthcaatgt	tattaaaaag	gtthgtthtt	ttaggaaagt	aatgtattht	tgcatgttht	1140
tgtgcctgtt	taaaggctth	tgthtagcag	agtgaatgta	aaatacagta	aatgtthtaag	1200
atthtcatct	actthtttaaa	aaaaaatatc	aactthggaat	tgthttthtaa	aggctcaatc	1260
aagggaagtga	ggtgtgcaat	aaggtagcaa	gtaaaacgca	gttgcgthtt	tatgtcatgt	1320
tagagatcca	tacaatthtt	cactcacggg	atthttgttg	atggctgaat	tcttgthggat	1380

tcataagagg	atcatgccct	tagcaagtac	ttttgttttg	ttttaaatta	agagattccc	1440
aaatgccttt	ttccccctca	tcttgaaatg	agatgagttt	ttatgtgtaa	gcaatattta	1500
tttaactatt	ctataaaaatt	attgagtgcc	tactgaggcc	tttaagcacc	gctaacattc	1560
ctttccatca	ttctttttaa	tgacataaaa	taattgtgca	atgttcctga	tgatgtaccc	1620
cacaagctgc	attcaaactc	aaatctgtgg	gaatgagtga	ctcgacaaaa	tgtaattcgg	1680
atcagatcct	catccccctga	ctgtgtgaaa	aaagtactct	ccttctagt	aaggattgtc	1740
acagagtttc	actggatgaa	actatgaccc	agtattctta	ctgtatttta	catatgcctg	1800
taaattat	gcaaaaaaga	agaagaagag	gaagaaagaa	aagaaagaaa	agaaagaaag	1860
aaagaaagaa	agaaagaaag	aaaaaaaaaa	aaaactcgag	ggggggcccg	gnacccaatt	1920
cggnctata						1929

<210> 96

<211> 788

<212> DNA

<213> Homo sapiens

<400> 96

ggcacgagaa	gatggcgccc	ccgcgggcag	ggagaggatc	ctccacagt	ctctcttcag	60
ttccccctca	aatgctgttt	tatctcagcg	gaacgtacta	cgccctgtat	ttcctcgcca	120
cgctcctgat	gatcacgtat	aaaagtcagg	tggtcagcta	tcctcaccgc	tacctggtec	180
tcgatcttgc	tctgctgttt	ctgatgggga	ttctagaagc	agttcgggta	tacctgggca	240
ccaggggcaa	cctgacagag	gctgagaggc	cgctggccgc	cagcctggcc	ctcacggctg	300
gcaccgccc	cctctctgcc	cacttccctg	tttggcaggc	cctagtgttg	tgggcggact	360
gggcccctag	cgccacgctc	ctggcccttc	acggcctgga	ggccgtcctg	caggtgggtg	420
ccatcgcgcc	cttcaccagg	ggcttcggag	gagaggtcag	ggctaaggcc	ggggatgaga	480
ctgcaggaga	gagagcagcg	gagggccaca	ttcggagcct	ccgtccactc	cagttttatc	540
agcttttgcc	tttttgcacg	gagttaaaca	aattctagct	ctgtgttttt	ttcccattcc	600
cagatttact	atcagttctc	cttaaaaagt	atctaagctg	ttacagtagc	tttccccctca	660
cttgattcta	ttgtgtgttt	tctatgtttg	gaataattac	acccaaatat	ctagatattt	720
tctcttcacc	gcatttttga	aataaagaga	tgtgtatgcc	tccctgaaaa	aaaaaaaaaa	780
aaaaaaaa						788

<210> 97

<211> 1264

<212> DNA

<213> Homo sapiens

<400> 97

ggcacagcgg	gaatgggcgt	ggcctgggcg	gggcgggcgc	taggaccac	cggagcgccg	60
tgaacgtcac	cgagcggcgc	cgaggccccg	gggtgagcgg	gaggcgcgat	cggtcgggtc	120
ggtggctccc	cgcggcgggg	ccgggcccga	tctcgggcgg	gaaccgagcg	cagagccggt	180
agcgggaagg	atgaccacgc	tcacacgaca	agacctcaac	tttggccaag	tggtggccga	240
tgtgctctgc	gagttcctgg	aggtggctgt	gcattctcat	ctctacgtgc	gcgaggtcta	300
ccccgtgggc	atcttccaga	aacgcaagaa	gtacaacgtg	ccggtccaga	tgtcctgcca	360
cccgagagctg	aatcagtata	tccaggacac	gctgcactgc	gtcaagccac	tcttgagaaa	420
gaatgatgtg	gagaaagtgg	tggtgggtgat	tttggataaa	gagcaccgcc	cagtggagaa	480
attcgtcttt	gagatcaccc	agcctccact	gctgtccatc	agctcagact	cgctgttgte	540
tcatgtggag	cagctgctcc	gggccttcat	cctgaagatc	agcgtgtgcg	atgccgtcct	600
ggaccacaac	ccccaggct	gtaccttcac	agtcctgggtg	cacacgagag	aagccgccac	660
tcgcaacatg	gagaagatcc	aggtcatcaa	ggatttcccc	tggatcctgg	cggatgagca	720
ggatgtccac	atgcatgacc	cccggctgat	accataaaaa	accatgacgt	cggacatttt	780
aaagatgcag	ctttacgtgg	aagagcgcgc	tcataaaggc	agctgagggg	gcacctgcca	840
ccccactgat	gcccactg	tcagactttg	ggggatcccc	gcctagggca	gtgctgcatg	900
gctgccctga	ttccaagtgc	tcttatcgcc	tctgtgtgtg	gatcgcccg	cccagcccgg	960
ggccgctcag	gtctgcttgg	aggatgcctc	ccccaggagg	gcagtgaggg	atgccgcaac	1020
ctcgacttct	cagcctcctg	gggttccgcc	ggccaacact	gtctgtctca	aatactgtgc	1080
tgtgagttgt	ttcaataaag	gggccccaa	gggctgaaaa	aaaaaaaaaa	aacattgggg	1140
cctctgcgga	ttcttgggct	cgaggggcaat	ttccccattg	tgatcgaata	aatccgaatc	1200
agggaaagcg	gttcgggggg	aattgtaacc	gctcaaattc	gaaaagtatg	ggcgaagcat	1260
aatt						1264

T02T60" 2800560

<210> 98
 <211> 892
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (21)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (33)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (855)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (868)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (891)
 <223> n equals a,t,g, or c

<400> 98
 gaatataccct ttaagctggt nccgctgcag gtnccgggtcc ggaattcccg ggtcgaccca 60
 cgcgtccgga tgactgtaat tctccttggt accgacgaga gatcattgga agctgccttc 120
 taacactttg tgtagctctg tggagttgga ttttcttaag gtttaaaaag aatcacagct 180
 tcggaacttt taactgaaaa tgagagacag aagccacagg ggaagcaaag caaataggat 240
 tttcaatata aatatcagtg tggaaaaata acctattctg ttgaatttag tgttcatgca 300
 cttgagaaca acattatttc catttactcc gaaaatcctt ctgtgggggt ttgagaaagt 360
 gaatgttgca gacatgttct gttgtgttgc actttatcct gtgtttatgt gtatgtgttt 420
 ttagattaat tcaagttgtg tgctatatatt cttgtataat ttacaaaagt acacaaaata 480
 taaagagcag taaacttgct tgaaaagttt tggcaaagga aggttaacttc aatgtaatag 540
 cttcctttta gagtacagga aaatgcattc tgtaatgaag tggggcccat gtaattgttt 600
 atattttcag ttttaagcag gtatagtgcg ggcttgktag gaatgtgtgg aagggaagaw 660
 ttggaagtgt ttttcctctt ttaaaagtaa acaaaattct tyaaatatgc cctagttaac 720
 tatttcagca taccattttt acttggttaa cagtgtacat tttgataacc tatcaggaat 780
 gaataaagta tttttattta aagggtgaaa aaaaaaaaaa agggcgcccg ytytagagga 840
 tccaagcttg cgtangcgtg caaacganat caggagtcga tgagtagctt nt 892

<210> 99
 <211> 597
 <212> DNA
 <213> Homo sapiens

<400> 99
 ggcacgagca aactctgatg gattgtcatt ctctccagac gggctcacct ttctgtgttt 60
 cctttggtgg caaaagccat tatcatctgc tgggaagtgc cggcaagagt cctggggctg 120
 ttgcagatgg ttctctcacc gctggagttc catccgttct tccccaaggc tcatctgttc 180
 tttctcttaa atatccctcc atcttctctc cctctttgcc ttggtacaca tgccaaacac 240
 gttttatctg agccttcacg ggagcctagt taactctttc gctgtcacta gcctggccct 300
 cttgaatcca tcttctggtg tgtctttacg ttttctcaaa aacaaatggg ttctcacttt 360
 ggtgtctaag tctctatgta atctggtecc agtctccctc tctctctctc tctctctgtc 420
 tgccctcttc gtgttgctgg gccttgcatg ccgtaccctg gcctttgtga aatgcccttc 480

atctgtgctc ttcctccac ctggaatgtc cgtctctctt tttctgccaa cccactcggc 540
ccctccctcc tgcaagcct tgagtgtccc ctccctccat gtccctgtggg ggcagag 597

```
<220>
<221> SITE
<222> (308)
<223> n equals a,t,g, or c
```

<400> 100						
tcggcagagc	tccccctgcgg	ttggaagtgt	tcatgcaa	tccagatctg	tccctggccca	60
gcttggaggt	gggccttctc	gactgggcca	tcccttgcga	gcgttctcag	cccacactgg	120
ctccctctgc	gcaggcccc	acttgtgaag	gagctgagcc	gcactcgg	ggctgtcctg	180
gggcacccat	gttgtgtgtt	ttggttttgt	ttattttgta	tctgcctgg	ttttccaagt	240
ctaatacagga	tgtccccctg	ggtgacattc	tttgctgaga	gaagggcaca	tgccctcggt	300
ccctgggnct	gtagaaagcc	agtgtctcag	cttgctttct	gccgcagact	tggtgcccg	360
agactcgcta	tcaaagtgc	gtggagataa	tgtccaattg	gaggtcgagg	caggagaatg	420
gcatgaggca	gagcttgag	tggagcaaga	tcgcaccacc	gtactccagc	ctgggcaaca	480
gagcgaggct	ctgtctcaaa	aaaaagaaaa	aaaaaaaaaa	aaaactcgag		530

```
<210> 101
<211> 1143
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (1109)
<223> n equals a,t,g, or c
```

<400>	101						
tcgacccacg	cgtccgagcc	gagactgcga	aggagaacgc	agcaagccca	ggcggcggtg		60
gaaaggctgg	aggacacacc	taaacatgtg	gaatcccaat	gccgggcagc	cagggccaaa		120
tccatatccc	cccaatatgt	ggtgccctgg	aggttccaat	cctgccacc	caccacctat		180
taatccacc	tttccccag	gccccctgtc	tcctccccc	ggagctcccc	atggcaatcc		240
agctttcccc	ccaggctggc	ccccctatcc	tgtgccacag	ccagggtatc	caggatgcc		300
accgttgggt	ccctaccctc	ctccataccc	accgcctgcc	cctggcaatcc	ctcctgtgaa		360
tccttggct	cctggcatgg	tgggaccagc	agtgatagta	gacaagaaga	tgcagaagaa		420
aatgaagaaa	gctcataaaa	agatgcacaa	gcaccaaag	caccacaagt	accacaagca		480
tggcaagcat	tcctcctctt	cctcctcctc	ttccagcagt	gattctgact	gaatacaggc		540
cctggaccct	tccttcaagt	ctcaccagtt	ctgctctccc	atcaagcttc	agatgccatg		600
ttgtactggg	ggaatgtagc	ccttgtgtct	cccacccct	acctscacct	gagcctcacc		660
ctgctgttga	gccctgagtg	gctatgggaa	atgggaacag	gattggcatg	gcctggccat		720
cttgttgctg	cttggttaga	tcatatagct	aatgaattag	gcaggggagc	tatttttga		780
agatgatgaa	ctaaatgttg	aagacaagtt	tgagatctgt	aaaatgtgat	tttttacttc		840
cacttataat	acttgtgatt	ggggagggtt	gtggaaattc	aattatgatg	aaaaacctat		900
cttttttgta	atgttggcat	acttggggaa	tttagtggca	aatacattcc	ccagcaggcc		960
ttttgttggt	tgcactaact	gcaaggttgc	tgggaagtag	agtccatttg	gttgatgagc		1020
tttgactgcg	gttttggaac	cttacctctc	ctccttagcc	caatatgctg	tcttgggtcc		1080
tattcaaata	aagttatttc	tcctggtcna	aaaaaacggc	acgagcggca	cgagctacgt		1140
ggg							1143

```
<210> 102
<211> 402
<212> DNA
<213> Homo sapiens
```

<220>
 <221> SITE
 <222> (373)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (397)
 <223> n equals a,t,g, or c

<400> 102
 gcccccggt ctgcagtaat tcggcactag cacagcctct gcatgggccc agagccgggm 60
 cccccccagc ccagccccgc cctccccaga ctccgcgcaa tcacatactg tatatagacg 120
 tgaatcgatt ttatTTTTtT tctTTTaaatt aaggctcgta taaagtgttg ccaaagatac 180
 ctgctgaatt ctcgcgTTTT aggaaacaaa caaacaaaaa aaaatgatat ttgaggaggg 240
 tcgtgttgac tccatatgaa aggacacagc tcaaagcttt tttgtttggt tgtttggggg 300
 tttttgtgtt ttctTTTTtt ggggtgtttt ttttttaact gcctggtaca aaaaaaaaaa 360
 gagaaaaaaaa acncgggggg ggccccggaa ccaaatnccc cc 402

<210> 103
 <211> 471
 <212> DNA
 <213> Homo sapiens

<400> 103
 ggcacgagcc agcacccact tcccacaggc cttccctcct cccttgctg ctgaccgggc 60
 agctcccgac agcacggcct tgTTTTccag ggaacaatgc atctgtgtca cggacaacaa 120
 tgctctttca tgtcaggcgc actggccccg gtgcacgccc ggacgtggca caaagggtgc 180
 tttgtgcagc tcagggatgt gagttcctgg ctttgccatg ttggtgctgc cgaccggggg 240
 cctctgtcct tgggtccagc ttatgcaaca gtcagtcgag gctgtggggc tggcccaggg 300
 gctttatctg tctccctctc caactTTTTgc caagttaacc ttctgggctt ccgccagcca 360
 ggagcccaca ctccctcagc cctcccacac gctcctctca actcctagct gggcttcgct 420
 gacttgaacc tggccgagtt tgccgggctcg gggctccaag gtgcgctgct g 471

<210> 104
 <211> 467
 <212> DNA
 <213> Homo sapiens

<400> 104
 cggcacgagc ctaccagtag ctccctgtca gccccttccc ccgtgacctg ctcttccaga 60
 gataacccat ctgccattgt gtcaagaggg gggttgaggg ttaagctctt ctctggggaa 120
 tcacatggaa agtctaggca cagttcgtcc ctacagagag cactgtgtgc catctccatg 180
 ctctgaagga gagactccag cttcttgttt tggatgttta tgtccacaaa atatttctga 240
 atgcctttat ctttatcagc caagctctcc gcatggtttc gatgacctgt ttgagctgtt 300
 taatctcttt cctggcttct ttgagtgcc actgggcctc taccgggtga cactcctcct 360
 caatccagtc ctctcgcatg cgggccagct gggacttaag ctccacgatt tcactttccc 420
 tagagtgcc aagacaagcat ggttaattaa aaaaaaaaaa aaaaaaa 467

<210> 105
 <211> 761
 <212> DNA
 <213> Homo sapiens

<400> 105
 ggcasagacc atatacttaa catgtatccc tacagtaacc tagtgagggt actctcacta 60
 tcgccatctt acagataaga ccactgaggc actggctccg ggcttctcat ccagttggcg 120
 gcacagagga gtccaaggctc aggttgtcta gagtccagct cttctcacga ccctagtccg 180
 cctccacaga accagggacg ccggacaagg aggacactgc cttcaggacc cttctgcgga 240
 ggtcccctcat ggtgcagaag ttgggagtag aggcagaaac agctgtgaaa attctgattt 300
 gtttgtttct ctgagccaag ctaaagtggg taatgaagcc aagctggcaa ttaccttcc 360

095088-091204

gtgctgata	atggtggttag	tggtgatgct	gactgcagca	ggatgacggt	gatgtcagca	420
gcgacacat	tggtcttatt	gatggtggca	gtgcccagg	tggtgtggg	gtaatagcat	480
gagtgggtgc	tggtgatgct	ttagtgatcc	tgctaggcc	aggttagctt	ggaggggaga	540
gtgatgtcca	tcactgcagt	ggtggcaatg	ctgctagaga	cctcctgagt	agttggactc	600
gggctggcat	tgctgctggg	accttccctc	acccccatca	ggaagacccc	tctgctcctc	660
cccaccctca	gtgaargggg	cagggctcag	arccttccgt	agaactggct	ttattgcatt	720
ccctgttctg	gacagtgtaa	gcsatggccc	tgccctctcga	g		761

<210> 106

<211> 943

<212> DNA

<213> Homo sapiens

<400> 106

ccacggcgtc	cgctaaattg	ttctctgcat	atagcaggaa	aactagcatg	aaatattgtt	60
tcaggccctg	ggttctatgt	gacactacat	taggaattgg	attgtttggg	tttgctttgt	120
gtttttgagg	tagaggaaga	aatgggaatc	ttttttttct	cttccaggag	tcagtgggaag	180
aatagttctc	tagctaagga	acggacatac	ctttgtttta	aaatatttta	tacttacaaa	240
aatctagaaa	tgagagggga	actgttttga	ataaggattt	aaaataacctg	cacaaggata	300
gagagaaact	atgtgactca	ttctgtgaaa	agacttcttg	cagttgtgag	ttatttagaa	360
atgatcaaaa	tttgtaatta	ggctaatacca	tttagtgatt	cctaataattt	tgtactcaca	420
gagaactaat	tgactaaaca	acttgaacgc	tagtggtttg	tccttagaca	atctgtcttt	480
gaatttaaag	tctttatcgc	taagaccttg	actttaaatt	tttcatcact	acaaccttga	540
atttaatttc	aggtcttcaa	catgatgacc	ttggatttaa	tttaaagtct	tcaacactat	600
gcgctttatc	atattattcc	cagatgcatt	tttgaaatgt	agtatgtaaa	agtatgtaac	660
gtgctgttta	tttaacaaaag	attgttcaca	acatctcatg	tagtttaaat	ttgtaaatat	720
tgcttctgtt	ttgtttctcc	tttatacact	tgactgtctt	tgtgataagt	gacatgaatt	780
ttatgttagg	attaagtatg	ttttcctgaa	acttggattt	tttttgtaat	tatataattg	840
agagttaaga	atgaaatcct	tcaagtgtta	aaaactcaca	ttttaaaagc	aaattttggg	900
tccaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaa		943

<210> 107

<211> 497

<212> DNA

<213> Homo sapiens

<400> 107

tttttttttt	ttttattatg	aaaccatgat	ttggccttaa	aaacttaaga	agaataaagt	60
aagagttgct	acaatgaagt	cagaatgaaa	ctattaaaga	atggtaatgg	aatgatttca	120
ggtatgagtg	ttattagaaa	cgtggctctc	tcttcctcta	tgcatcaacc	tgtaatgact	180
ccctaatact	tatgtgataa	ccacactttg	tctctcaaga	attccaaagg	cagagagaat	240
gatcagtgat	tgtcagagtt	tgaaaacaat	ctcaaaagag	cagtaataac	ttcaaattat	300
ttggaaatcc	cttattttta	gaattcaaga	aaatttagca	tcataatttc	tatttaagtt	360
gctacagaga	tattttacat	gacttatcaa	ttaattaatt	ataagtttcc	ctactctgct	420
agttttactt	caaataatga	agggaaactt	ataattaatt	gataagtcac	gttaaatata	480
agtttcccg	acgcgtg					497

<210> 108

<211> 1536

<212> DNA

<213> Homo sapiens

<400> 108

ccacgcgtcc	gcacatctcc	cccatagcac	cctgccctca	tgggacctgc	cctccctcag	60
ccgtcagcca	tcagccatgg	ccctcccagt	gcctcctagc	cccttcttcc	aaggagcaga	120
gaggtggcca	ccgggggtgc	tctgtcctac	ctccactctc	tgcccctaaa	gatggggagga	180
gaccagcggt	ccatgggtct	ggcctgtgag	tctccccttg	cagcctgggtc	actaggcatc	240
acccccgctt	tggttcttca	gatgctcttg	gggttcatag	gggcagggtcc	tagtcggggca	300
gggcccctga	ccctcccggc	ctggtcttca	tctccctgac	ggctgccatt	ggtccaccct	360
ttcatagaga	ggcctgcttt	gttacaaagc	tcgggtctcc	ctcctgcagc	tcggttaagt	420
acccgaggcc	tctcttaaga	tgtccagggc	cccaggcccc	cgggcacagc	cagcccaaac	480

0950062-04104

cttggggccct	ggaagatcct	ccaccccatc	actagagtgc	tctgaccctg	ggctttcacg	540
ggccccattc	caccgcctcc	ccaacttgag	cctgtgacct	tgggaccaa	gggggagtc	600
tcgtctcttg	tgactcagca	gaggcagtg	ccacgttcag	gaggggccc	tggcctggag	660
gctcagccca	ccctccagct	tttcctcagg	gtgtccctgag	gtccaagatt	ctggagcaat	720
ctgacccttc	tccaaaggct	ctgttatcag	ctgggcagtg	ccaccaatcc	ctggccattt	780
ggccccaggg	gacgtggggc	tgcaggctgc	aggagggcac	tggagctggg	aggtctcgtc	840
ccagccctcc	ccatctcggg	gctgctgtgt	ggacggcgct	gcctcaggca	ctctcctgtc	900
tgaacctgcc	cttactgtgt	ttaacctgtt	gctccaggat	gcattctgat	aggagggggc	960
ggcagggctg	ggccttgtag	caatctgcct	ttcaccacat	ggcttgccct	ggtggccctg	1020
actgtcaggg	agggccaggg	aggcagagcg	ggagggagtc	tcaggaggag	gctgccctga	1080
ggggctgggg	aggggggtacc	tcagtaggac	caggggtggag	ctgagaagag	gaggaggtgg	1140
gggctggagg	tgctggtagc	tgaggggacg	ggcaagttag	aggggagggg	gggaagtcct	1200
gggaggatcc	tgagctgctg	ttgcagtcta	accactaat	cagttcttag	attcagggga	1260
agggcaggca	ccaacaactc	agaatggggg	ctttcgggga	ggggcgctag	ccccccagc	1320
tctaagcagc	caggagggac	ctgcatctaa	gcattctgggt	tgccatggca	atggcatgcc	1380
ccccagctac	tgtatgcccc	cgacccccgc	agaggcagaa	tgaaccata	gggagctgat	1440
cgtaatgttt	atcatgtttc	ttccccacc	ctacattttt	tgaataaaa	taaggaattt	1500
taaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaa			1536

<210> 109

<211> 1550

<212> DNA

<213> Homo sapiens

<400> 109

ccgggctagg	agacctgttc	tgatgatgtg	tgtgggtcctc	accacactgc	cctgcctcac	60
cttttccata	gcagtgactg	aggttcaaaa	gagcattaat	gggtccgctg	atgtcttacc	120
tgatatgtta	cctgacctgc	ccgtatctct	ggttctgtta	tccctgatca	tggttgatat	180
tattgaaaaa	ctcaggatat	atcctcttag	agggagtcaa	aagagtaagt	gttcttttaa	240
atgtgaatat	tttttaaagt	ttgatataat	tttcacattt	ctgccactgt	gttatctgac	300
aacatgttta	atgatacctt	ttcttagggc	taacattact	gatagaagat	tgcaaataaa	360
gatatactaa	cataattatt	tttaaacctc	ccttgatagc	tagatagctg	cttttgtttg	420
ctattcgcac	tttagtagta	ctgataaatt	aaaaattatc	aaatagttaa	tacaaaaaac	480
cttaagtgtt	attccagcaa	gaaattatcc	aagtaaatta	ttatagatgt	atatttttct	540
aggaagtctc	ttaaagctta	tgtttaaatg	gattaataaa	aagcttagtt	tggagacttt	600
tactacagga	attaatatga	ctgtggtagt	tgtgtcctag	ataatcatgt	gtttaattgt	660
gaattataaa	aatgccaaag	atcacactaa	taaaaccaag	atatggctgg	gtgcagtggc	720
tcacacctgt	aatcccagca	tttttgagg	ccaggatggg	aagatggcat	gagctcagga	780
gtttgagacc	agcctgagca	acatagcaag	acaccatccc	tataaaaaaa	taaaatttaa	840
agaaaactca	acaagatgtg	tcacatctcc	tccaaagtga	tgagttgaaa	ctaaatacac	900
attggccctt	acaaaaagat	attttggtta	tggaaatatt	tatttattta	gtcgtaaatt	960
actccagcct	gggtgataga	acatacctct	gtctcaaaaa	aaaaaaaaaa	aaaggaaaga	1020
aaatttgcat	gcgtgtgtgt	gttgaatgtg	tgtgtttggg	agaagggaga	gcttcatcat	1080
gatcaacaat	atttttgtgt	gttttaagag	gggtgtttat	gtgagatttc	atttggggga	1140
aaaaaaaagc	tcctctgcta	aatgttttaa	aatcattaac	ctagggcctc	attcagcatt	1200
gtaaccgcac	ctgtttctag	gacactacca	tttctatgaa	gagatagata	ggttgccaac	1260
tctctctcca	ggcccagctc	cctggcaatc	atgactgcac	cacctagagg	caaagtgagc	1320
ccccatctaa	ggctcttgta	ctactgctgc	tgctctgggc	agtttcagct	ttgtaggcag	1380
agtgaccctg	cttggtgggg	tacaaactgg	cttgaggctc	aacacctttg	aaaaacagat	1440
aaacctttta	acatgccatg	ttgaattttt	tctttccaat	gttgcatttt	tccaaaagaa	1500
cacatactca	tttaaaaaag	ttataaaata	gagataaaaa	aaaaaaaaaa		1550

<210> 110

<211> 1997

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1468)

<223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1495)
 <223> n equals a,t,g, or c

<400> 110
 cccacgcgtc cgtatcttag gaaatgccca tgataattca gaagaacttg aaagagccag 60
 ggagctgaag gaaaaggaag ccacactatg tctagagttt ctgcttcaaa atgatgcaaa 120
 tccatctatc cgggacaagg aagggtacaa tagcatacat tatgctgccg cctatgggca 180
 caggcagtgt ctggaattgc ttttggaag aacaaacagt ggatttgaag aatcagattc 240
 tgggtgctact aagagtccac tccacttagc tgcctacaat gggcaccatc aagccttgga 300
 agtcctctgc agtcgttggg ggacctggac atcagggatg agaaaggccg cactgctctg 360
 gatctggctg ccttttaaagg acacacagaa tgtgtggaag cgcttatcaa tcagggcgca 420
 tccatctttg tgaaagacaa tgtaaccaa agaacccac ttcattgctc agtaattaat 480
 ggtcacacac tgtgtttacg gctgttgcta gaaattgcag acaaccgga ggcggtcgat 540
 gtgaaagatg ccaaaggaca aacaccactg atgcttgacg tagcatatgg acatattgac 600
 gctgtttcat tgttacttga aaaggaacca acgtagacac tgttgacatc ctaggatgca 660
 cagctttaca cagaaggatt atgacaggac acgaagaatg tgtgcaaag ctgctggaac 720
 aagaagtgtc aattctctgt aaagatccag aggagacgcc cttgcaactat gcagctgctc 780
 gtggcacgcc acgtggctga gcgagctgct ccaaattggc ctttctgagg aggactgttg 840
 tttcaaagat aaccaaggct acacgccgct gcaactgggt tgttacaatg gtaatgaaaa 900
 ctgtatagag gtacttttgg agcaaaaatg ttttcgcaaa tttatcggtat atccctttac 960
 tccactgcac tgtgcaataa tcaatgatca tgggaattgt gcatcattgc tgcttggggc 1020
 catagattcc agtatcgta gttgtagaga tgacaaaggc aggacacccc ttcattgcggc 1080
 agcatttgct gatcatgtgg agtgcttgca gcttcttctg agacacagtg ctccaagtga 1140
 acgcagtaga taattcaggg aaaacagcac tgatgatggc tgctgagaat gggcaggcag 1200
 gcgctgggga tatttttggtg acagtgccca ggttgatctg actgtaaagg ataaggactt 1260
 gaatacacc ttacatttgg cttggagtaa aggtcatgaa aatgtgcct tgtaataact 1320
 tgacaagata caagacgaga gccttattaa tgaaaaaat aatgcaactg agacaccctt 1380
 ccacgtcgct gcgcgcaatg gcgaaagggt gtagttgagg agttgctggc caaaggggccc 1440
 tgtgtacttg ctgtagatga aaatgttnta ggtcaaatgg accccgttcc acacntggaa 1500
 ccgctgtaca aaaagaagaa tgagactctt taaaaattat gcacatacac atgcacacat 1560
 atatgtgtgc gtgtgtatat atatatatat gtgtgtgtgt tggtgtagtt catcagccag 1620
 tacacatgag gaccaaagt catcagtcta aaatgggaaga tacacatttt ttttccttca 1680
 aaattcaagt gagaactgaa gtagcttttt tatggagtta aatgtaatct ttctgtgtta 1740
 ccagtctttg ttgtatttta ttttcttag gacacagatt tctagttagc cacttaacat 1800
 ttgtaactga tgatgtgttg accttttttt ttttttttgc caaactagag aaaatgtcca 1860
 tatacttttg ctgtaaatgt gtttatattt atttgaaatg aaacaaatgg tgaggaaaca 1920
 tccattattt gttctctatt ttaattgcta tgtatcttat ttagaataac aaaaaaaaaa 1980
 aaaaaaaaaa aaaaaaa 1997

<210> 111
 <211> 2582
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1006)
 <223> n equals a,t,g, or c

<400> 111
 gcagcccgtc ctccatgtga cttcagtttc cgtccgttcc ttccgctggt gctaaaataa 60
 tctgatgcc cacagcaagg aggtagccca gccccgcgtt cggctgctct cgaggaggcc 120
 ggagtcccc gagacgatgc gccccgcgca gccgcctgcg cctgcgggag ccggctgccc 180
 ttgagatgga gttgctgcct ctttggctct gcctgggttt tcaacttcctg accgtgggct 240
 ggaggaacag aagcgggaaca gccacagcag cctcccaagg agtctgcaag ttggtgggtg 300
 gagccgctga ctgccgaggg cagagcctcg cttcgggtgcc cagcagctc ccgccccacg 360
 cccgatgct caccctggat gccaaacctc tcaagacct gtggaatcac tccctccagc 420
 cttaccctct cctggagagc ctcagcctgc acagctgccca cctggagcgc atcagccgcg 480

09950082 "091201

gcgccttcca	ggagcaaggt	cacctgcgca	gcctggteet	gggggacaac	tgcctctcag	540
agaactacga	agagacggca	gccgcccctcc	acgccttgcc	gggcctgcgg	aggctggact	600
tgtcaggaaa	cgccctgacg	gaggacatgg	cagccctcat	gctccagaac	ctctcctcgc	660
tgcggtccgt	gtccctggcg	gggaacacca	tcatgcggt	ggacgactcc	gtcttcgagg	720
gcctggagcg	tctccgggag	ctggatctgc	agaggaacta	catcttcgag	atcgagggcg	780
gcgctttcga	cggcctgggt	gagctgaggg	acctcaacct	ggccttcaac	aacctcccct	840
gcatcgtaga	cttcggggctc	acgcgggtgc	gggtcctcaa	cgtagctac	aacgtcctgg	900
agtggttcct	cgcgaccggg	ggagaggctg	ccttcgagct	ggagacgctg	gacctgtctc	960
acaaccaagc	tgctgktctt	cccgtctgtg	ccccagtaca	gcaagntgcg	gacctyctg	1020
ctgcgcgaca	acaacatggg	cttctaccgg	gacctgtaca	acacctygtc	gscgagggag	1080
atgggtggccc	agttctctct	cgtggacggc	aacgtgacca	acatcaccac	cgtagcctc	1140
tgggaagaat	tctcctccag	cgacctcgca	gatctccgct	tcctggacat	gagccagaac	1200
cagttccagt	acctgccaga	cggcttctctg	aggaaaatgc	cttcccctctc	ccacctgaac	1260
ctccaccaga	attgcctgat	gacgcttcac	attcggggagc	acgagccccc	cggagcgctc	1320
accgagctgg	acctgagcca	caaccagctg	tcggagctgc	acctggctcc	ggggctggcc	1380
agctgcctgg	gcagcctggc	cttggtcaac	ctgagctcca	accagctcct	gggcgtcccc	1440
cctggcctct	tcgccaatgc	taggaacatc	actacacttg	acatgagcca	caatcagatc	1500
tcactttgtc	ccctgccagc	tgctcggac	cgggtggggc	cccctagctg	tgtggatttc	1560
aggaatatgg	catctttaag	gagcctgtct	ctggagggct	gtggcctggg	gcattgccag	1620
actgcccatt	ccaagggacc	tccttgacct	acttagacct	ctcaagcaac	tgggggggttc	1680
tgaatgggag	cctcgcccca	ctccaggatg	ttgcccccat	gttacaggtc	ctgtctctca	1740
ggaacatggg	cctccactcc	agctttatgg	cgttggactt	ctctgggttt	gggaatctca	1800
gggacttaga	tctgtcgggg	aattgcttga	ccaccttccc	aaggtttggg	ggcagcctgg	1860
ccctggagac	cctggatctc	cgtagaaact	cgctcacagc	cyttccccag	aaggctgtgt	1920
ctgagcagct	ctcgagaggt	ctgcggacca	tctacctcag	tcagaatcca	tatgactgct	1980
gtggggtgra	tggctggggg	gccctgcagc	atgggcagac	ggtggccgac	tgggccatgg	2040
tcacctgcaa	cctctctctc	aagatcatcc	gcgtgacgga	gctgcccgga	ggtgtgcctc	2100
gggactgcaa	gtgggagcgg	ctggacctgg	gcctgctcta	cctcgtgctc	atcctcccca	2160
gctgcctcac	cctgctgggtg	gcctgcactg	tcatcgtcct	cacttttaag	aagcctctgc	2220
ttcagggtcat	caagagccgc	tgccactggg	cctccgttta	ctgacctggc	tgtgtgccaa	2280
gactcgaaat	tcggtcgcga	cacaacagga	cactttctct	gccagctttc	aagatgtgat	2340
gcagaggcca	agtctgacga	attgaagttt	caattaaaat	ttaatatggt	tccattcctc	2400
atcgcccacc	ccacccccgc	ccccaccacc	gcccaagttc	tttttccatc	attataattc	2460
atcctcatta	tcttggtaaa	atatttatta	agtgactttt	tcagaaataa	aaggcaacgt	2520
gtctcataaa	tatttttttaa	attaaatgca	aaaaaaaaaa	aaaaaaaaaa	aagggcggcc	2580
gc						2582

<210> 112

<211> 1904

<212> DNA

<213> Homo sapiens

<400> 112

cccacgcgtc	cgccgggagt	cgctgggtgc	gtggggctgc	ctcgcccgct	ctcgccacgg	60
gctctgccag	cagacagcct	tggcacacag	gcacaagggc	tggagcccag	agatgagagt	120
gcccaggga	gatgtgagcc	tggcgggctg	cccgtcaacc	tgctgctgaa	gccccagaag	180
cgggcccetca	ggccaggcct	accctgcctc	cggcccagca	tgccctgtgc	ggtgcggagg	240
gtgctgctgg	caaccggctg	cgccctgggtc	ctggtgctgg	cggttcagct	gggacagcag	300
gtgctagagt	gccggggcgg	gctggcgggc	ctgcggaccc	ccggggggcc	atgcggcctg	360
agcaggagga	gctggtgatg	gtgggcacca	accacgtgga	ataccgctat	ggcaaggcca	420
tgccgctcat	cttcgtgggt	ggcgtgcctc	gcagtggcac	cacgttgatg	cgcgccatgc	480
tggacgcccc	ccccagggtg	cgtgcggcg	aggagaccgg	catcatcccg	cgcgtgctgg	540
ccatgcgcca	ggcctgggtc	aagtctggcc	gtgagaagct	gcggctggat	gaggcggggg	600
tgacggatga	ggtgctggac	gccgccatgc	aggccttcat	cctggagggtg	attgccaaagc	660
acggagagcc	ggcccgcgtg	ctctgcaaca	aggacccatt	tacgtcaag	tcctcggtct	720
acctgtcgcg	cctgttcccc	aactccaagt	tcctgctgat	ggtgcgggac	ggccgggcct	780
ccgtgcactc	catgatcacg	cgcaaagtca	ccattgcggg	ctttgacctc	agcagctacc	840
gtgactgcct	caccaagtgg	aacaaggcca	tcgaggtgat	gtacgcccag	tgcattggagg	900
taggcaagga	gaagtgcctg	cctgtgtact	acgagcagct	ggtgctgcac	cccaggcgct	960
cactcaagct	cactctcgac	tctctggca	tcgcctggag	cgacgtgtgc	ctccaccatg	1020
aagacctcat	tggcaagccc	ggtggtgtct	ccctgtccaa	gatcgagcgg	tccacggacc	1080

aggtcatcaa	gcctgttaac	ctggaagcgc	tctccaagtg	gactggccac	atccctgggg	1140
atgtgggtgcg	ggacatggcc	cagatcgccc	ccatgctggc	tcagctcggc	tatgaccctt	1200
atgcaaacc	ccccaaactat	ggcaaccctg	accccttcgt	catcaacaac	acacagcggg	1260
tcttgaaagg	ggactataaa	acaccagcca	atctgaaagg	atatttttcag	gtgaaccaga	1320
acagcacctc	ctcccactta	ggaagctcgt	gatttccaga	tctccgcaaa	tgacttcatt	1380
gccaagaaga	gaagaaaatg	cattttaagtg	gaaatcggac	ctctaatacca	agcatattgc	1440
ttgctattaa	tcgccaaaac	aggactgctg	atgaggaatg	tatttgcata	tgtttgcaaa	1500
agctgaatca	ttgaaaacgt	accttgaaac	tctctatctc	tggacactcc	agggtagaga	1560
atgaagggtg	tggaagtagt	cgggcttttg	aaacttaggt	attttatatt	tttccctca	1620
agaacttttt	ttaagagaca	gatttgccat	cctccttaat	ttgcaggact	gccttggtgg	1680
ctttgtttgc	tgggacaagg	cccacaacct	gtgcctctcc	tattgaccct	tactttgaat	1740
tcaaagaatc	tatttaagag	tttaatatat	gaggctttct	ttgattcctc	ctcagttcta	1800
cctagtttca	cagaggaaaa	aaatactctt	tgaataaagt	gaacagaggc	tcaaaaaaaaa	1860
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaa		1904

<210> 113

<211> 2187

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (347)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2097)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2187)

<223> n equals a,t,g, or c

<400> 113

ggccctcaat	ttatcctctg	cctctgacaa	atatattcca	ttttgttaca	ttgcaaaaat	60
ttcagcacat	tgctttgctt	acccatcttt	gctctggaac	gacttttaat	tcttcttttg	120
gcaatcttgg	ttgttttgag	atgtgtgaaa	ttagaatcat	atgcagggtg	ttgagttctt	180
ttgattttgc	tttttaaaag	agtttttttt	ttgttttggt	ttgttttggt	tttagaatgg	240
ggcaatgtaa	agccagaata	tcaacgtcct	tttgtcaaga	tttcaaacct	attkggstga	300
tagtacactt	acaagaatag	gtaaaaaaga	tcccaaagat	ttactncac	ttactkgaac	360
tactagccct	actattaaga	gccacagcaa	gcttacagkt	caaaaaaaaaa	aaaaaaaaaga	420
gctgcaacat	tcctttcgca	ctcccactcg	cccctgaggt	tcttccactt	ccttcctatg	480
gcttttttta	gaagcgagtg	tgttttttct	acgtccggca	acaaaggatg	ttttgtgcta	540
ctactgaggt	ttgtgtgtgt	gacttacttt	agaactcttt	ctagaaaatg	cgattactat	600
ttgcataggt	ctggtagaac	tttgatttga	gtgaaagtct	ccgatgactg	ttttgttttt	660
tgtgtagatt	tgccactgct	taacatcaaa	tcactttccc	ctgtgtgttt	taaaatacct	720
ctaataggac	ctgtcaaaat	tctcccagaa	gtctcacaaa	ttcttacctt	taaagaaagt	780
gtaagtata	ccttcagtg	attgtattta	ttcttatata	cctttgcaaa	gacttctcat	840
cacttcctta	aatatgtctg	aatgtgccat	aatgagaagg	ggacatggta	attaaccatc	900
aaactttggt	ttcatggaga	aaatctatct	ggagcagtc	cagtatccta	tgctggagct	960
atcagatgcc	ttgacattag	atgtttccat	ctaattgtaa	ttctctgagc	aaggagacaa	1020
ggtgggataa	acagaattct	cagatggctg	agaattatac	cctaaatcct	gggagagaat	1080
ttacctttcc	attgtcagat	aatatgaatc	atttaaaaca	tgtgctggaa	cagctttgcc	1140
ttttcttgag	gaaaatgggg	tttctctctc	aaagagaaag	ataaatgcgc	ctcagaagat	1200
tttagtggtc	gatctctgtc	agtgtactac	cagcaaaaat	cccagcaatc	aatattacaa	1260
agargcagca	ctcacttgag	tacaraaktw	acaacattag	ctgcttcgtw	aacaagatgg	1320
catgggagat	attctgtttt	gagtaaatga	caagtcctac	agtctagata	ggaagattty	1380
tcctccatat	ggattttgtg	atttygtctt	gtgttgagta	aggaagggga	gcttggaattc	1440
caagatcaat	ttaatgtcta	tattccttgg	cattgtcatg	ttagagcagc	acatctcaga	1500

tggtcttcaa	tagttatttt	agcattgatt	ttcctctact	agagtaaate	aaaagatgat	1560
ttagaaaate	aaagtcagtt	ttccttggag	ttttctcaga	ataaagggaa	gctgtggtgt	1620
tgaaggggtt	ttttggctcc	tatttacata	tgatgcaaaa	tcaatctgtg	tgaatctctt	1680
tcctctgttg	agctctacta	taggctctac	tatatgcaga	gccttgggta	tttctgtgag	1740
agggggatta	tgcaaaagaa	ttttaaggca	tgccacttga	ctttgtgaaa	ccaagtattt	1800
gtttaaagag	acacgatatt	atagtgggag	gctgttttgt	gagaaccac	actttcatgt	1860
cagcaccttg	agatgggagc	ccattacgcc	ctttaaccag	gcaagggact	ttatgcagtt	1920
cttcgtcagg	aaaatggaga	caattaaact	gcttttctca	taggttggtg	tgtaaaaggc	1980
agcaagatgt	ggctgtgtaa	gaacatgact	gaagccagac	tgcttatgct	taaaacctag	2040
gtgagctgtt	tacacctgat	atgaccttgg	acaagtctca	tctaacttct	cttgccntca	2100
ggtgcctcat	ctgaagatag	cagtgatgtt	agtgtctgcc	ctcctgccct	cataagcctg	2160
gtcatgggtg	gagaccatcc	tggccan				2187

<210> 114

<211> 2625

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (780)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1594)

<223> n equals a,t,g, or c

<400> 114

cccacgcgtc	cggtaagatg	agttaggggtg	acttgctaata	agacattgta	aattcttaata	60
tttatgtatg	tattttatta	ttaccgggtt	tccatttatg	atggtaatat	tgtttcttct	120
aagaatattt	atttttcctt	ctaaatattg	agataaaaatt	catgcttttg	aaatgttcta	180
ttcagtggtc	tttagtatat	ttgctatgtt	gtgcaaccat	cgacactatc	catttctaga	240
actttttcgt	catcccaaac	agacgctctg	tattcataaa	aaaataaact	cctacctgtc	300
tctcccccta	gtctttggta	acctttgtta	tactggtaaa	ctttgttggtg	ctctctgtct	360
gtgtgaattt	gcctattcta	ggggcctcat	ataagtgtaa	tcatacagta	tttgtctttt	420
tgggtctgtc	tgattttcact	tagcgggttt	tcagggggtt	attcatgttg	cagcatataa	480
cagtactgcg	ttcctttttc	tgggctgaat	aatattccac	tgtatggata	gaccccatth	540
tgttttattc	cacatcattt	ggacatttgg	aataattctg	gtttttggct	attatgaaca	600
atgggtgctat	gaacagttgc	gtacaagttt	ttgtgtgaac	atatgttttc	aattctctca	660
ttatatacct	aggagtagaa	ttactggggg	catatgggaa	ctgggtatatt	tttgaggagg	720
ctgccaaact	atttttccac	gggtccatga	ccatttcaca	ttcccaccag	taagtaagan	780
ggttccaaat	tctgccattc	ttgccaaac	tagttattat	ctgactttct	ggttataatc	840
attctaata	gtgtgaagta	gcctctgggt	tcattttggat	ttgcatttct	ctgatgaatg	900
atgctatcaa	gcacctttgc	tgggtgctgt	ggccatatgt	gtatgttccc	tggaaaagt	960
tctgtgctga	gccttggccc	actttttaat	taggcgtttg	tctttttatt	actgagttgt	1020
aagagttctt	tatatattct	ggattctaga	cccttatcag	atacatgggt	tgcaaatatt	1080
ttctcccat	ctgtgggttg	tgttttcact	ttatcgataa	tgctccttaga	catataataa	1140
atttgtattt	taaaagtga	ttgattttgg	tgtgcaagg	ggctcacgct	tgtaatccca	1200
gcactttggg	agactgaggt	gggtggatca	tatgaggagg	ctaggagtct	gagggtcagcc	1260
tggccagcat	agcgaaaact	tgtctctact	aaaaatacaa	aaattagtca	ggcatgggtg	1320
tgacgctctg	taataccagc	ttctcaggag	gctgaggcac	gaggatcact	tgaaccagg	1380
aggaggagg	tgacgtgagc	tgagatcatg	ccaggggcaac	agaatgagac	tttggttaaa	1440
aaaaaaaaaa	agtgaactga	tttaagggaa	aaaatgactg	gctatattca	gtcagatatg	1500
gcaaaaagtc	tcaaggtggt	aatgtgaatg	attaagggtc	tggggggggg	gtcccctatc	1560
agactacagg	tggttaaagg	cacagaaaaa	ggtncagttg	ggttcttaat	gtgaaatgat	1620
gagaagcaca	actccagttg	gtctctttgt	gtagaatgtc	agcagacacc	ccctgctaga	1680
tgtgctggat	catgggaaag	cattttccatt	tgttactaga	ttgttcagaa	gttttaattt	1740
atgatgggtg	tgggtggctc	tgccctgtagt	cccagcactg	tgggaggctg	aggcaggagg	1800
atcatctgag	gccaagagtt	caagatcagc	ctgggcaaca	tagtgatacc	ctatctctta	1860
aaaaagaaga	agttttttaa	tttgaaataa	taatagggtac	tggattttatg	caaatgtcct	1920

ttctgcgctct	tttgagatga	gtatcagggtt	tttttttttc	cttttatcat	ctgatgatga	1980
acttaatggt	tccatttgta	ttaatggaat	actaagtccc	tctgtgattt	ctgaaccaag	2040
ctattcctag	gcctgagttt	tattttgttg	acacagaaat	aaattagaag	sccaagcgtg	2100
gtggcatgtg	cctgtagtcc	tagttgctga	ggtaagagga	ttgcttgagc	ccaggagttc	2160
aaggctgcag	caagctttga	ttgcgcccac	tgcactccag	ccttggcgac	agactaagac	2220
gctgtctcaa	aaaaaaaaaa	aaacgacaaa	aaaaaaaaaa	aacagaaaaa	ataaactaag	2280
gcaatgacag	tccctggcaa	atgctgggag	ggaggcagca	gtggtcaggg	aaggtaaccc	2340
tgaagcagga	cttgtaaagc	aaataagatt	gggaggccaa	ggtgggtgga	tcacagggtc	2400
aggagttcga	gaccagcctg	gccaacatag	tgaaaccccg	tctttactaa	aaatacaaaa	2460
aaattagcca	ggtgtgggtg	tgggtgcctg	tagtcccagc	tacttgggag	gctgaggcag	2520
gagaatctcg	aacccaggag	gcggagggtta	cagtcagctg	agaccgcacc	attgcactcc	2580
agcctgggtg	acagagcaag	attccgtctc	aaaaaaaaaa	aaaaa		2625

<210> 115

<211> 2196

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1921)

<223> n equals a,t,g, or c

<400> 115

ggcacgagct	gagtttgtgg	ctgcattttt	atctctggtg	gctctgctac	ggcggcgcag	60
aaatgaggca	gaagcggaaa	ggagatctca	gccctgctga	gctgatgatg	ctgactatag	120
gagatgttat	taaacaactg	attgaagccc	acgagcaggg	gaaagacatc	gatctaaata	180
aggtgaaaac	caagacagct	gccaatatatg	gcctttctgc	ccagccccgc	ctgggtggata	240
tcattgctgc	cgctccctct	cagtatcgca	aggtcttgat	gcccaggtta	aaggcgaaac	300
ccatcagaac	tgctagtggg	attgctgtcg	tggctgtgat	gtgcaaacc	cacagatgtc	360
cacacatcag	ttttacagga	aatatatgtg	tatactgccc	tgggtggacct	gattctgatt	420
ttgagtattc	caccagctct	tacactggct	atgagccaac	ctccatgaga	gctatccgtg	480
ccagatatga	ccctttccta	cagacaagac	accgawtaga	acagttaaaa	caacttgggtc	540
atagtgtgga	taaagtggag	tttattgtga	tgggtggaac	gtttatggcc	cttccagaag	600
aatacagaga	ttattttatt	cgaaattttac	atgatgcctt	atcaggacat	acttccaaca	660
atattttacga	ggcagtcacg	tattctgaga	gaagcctcac	aaagtgtatt	ggaattacta	720
ttgaaaccag	accagattac	tgcattgaag	gacatttaag	tgacatgttg	acctatggct	780
gcacaaggct	ggagattggg	gtgcagagtg	tttatgaaga	tgtggytaga	gacaccaaca	840
ggggccacac	tgtgaaggca	gtgtgtgagt	catttcacct	ggccaaagat	tccggtttta	900
aagtgggtggc	ccatatgatg	cctgacctgc	caaacgtggg	actagaaaga	gacattgaac	960
agttcacaga	gtttttttgag	aaccctgctt	ttcgtcccga	tgggctgaaa	ctctatccta	1020
ccctgggtgat	tcgtgggacc	gggcttttatg	agcttttgaa	atcaggaaga	tataagagtt	1080
actctcctag	tgacctgggt	gaattgggtg	ctcggatcct	agccctcgtg	cctccatgga	1140
ctcagagtgt	ccgagtacag	agggatattc	caatgccttt	agttagctca	ggagtagagc	1200
atggtaacct	gagagagctg	gcacttgcaa	gaatgaaaga	cctcgggaata	cagtgtcgag	1260
atgtgagaac	cagagaagtt	ggaatccaag	aaattcatca	caaagtacgg	ccataccagg	1320
ttgaattggg	aaggagagat	tatgttgcaa	atgggtggctg	ggaaacattc	ttgtcatacg	1380
aagaccagga	tcaagacatt	ttgattggcc	tcctacgatt	acgcaagtgt	tcagaagaaa	1440
ctttccgttt	cgaattgggt	ggagggtgtct	ccatagtacg	agagctgcat	gtgtatggga	1500
gtgtggtccc	tgtgagcagc	cgggatcccta	ctaaatttca	gcatcaggga	tttggcatgc	1560
tgtctatgga	ggaagcagaa	agaatagcta	gagaagaaca	tgggtctggg	aaaatcgctg	1620
tgatatcagg	ggtcggcacc	aggaattatt	atagaaagat	cggctacaga	ttacaaggcc	1680
cgtacatggg	gaagatgctg	aaataatggc	cacaccagtc	cactcttctg	cagtatcctc	1740
cctggcagaa	cacggagaat	caggatttct	taaatactca	acagagaggc	tgagcagagc	1800
aaatgggggg	cttcaccctc	atcccgcagc	tgcagagact	ggaaactgcc	ttcaaggcca	1860
cggctgggtca	tctgctgacc	acaccccaga	tccgcctctc	cctgcgtgca	ccccaaaaaa	1920
ntcacttgctg	tttttgaggc	ttaaatacatc	tatccagttt	ctacattttg	catgaggcct	1980
gcagggtggc	tatttttgact	cagacgggtga	aaaaagcaaa	ttaactcatt	tggacaccat	2040
aactcatgca	ataaaaactga	ttgtcattcg	aggaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2100
aaaaaaaaaaa	agggcggccg	ctctagagga	tccctcgagg	ggcccaagct	tacgcgtgca	2160
tgcgacgtca	tagctctctc	cctatagtgg	gtcgta			2196

09950032-091201

<210> 116
 <211> 1777
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1066)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1764)
 <223> n equals a,t,g, or c

<400> 116
 cgctggggag agtccccagc ctaaggccgc ccccgaggcc kcctcgccgc ctgcctcacc 60
 cctccagcat ctctgcctg gaaaggctgt ggaccttggg cccccaagc ccagcgacca 120
 ggagactgga gagcaggtgt ccagccccag cagccacccc gccctccaca ccaccaccga 180
 ggacagtgcg ggggtgcaga ctgagttcta gggcagtggtg tccctgactg ctgcacatgg 240
 cacaggccgt tcccttccgg acccaggcag gctcagctct ggggagggca ccttgggtctg 300
 tgccttgtgg gtggaggcgg ggcagggtgt tgtggcaccg ccaggagcgg ggcccacctg 360
 agtcacttta ttgggttcag tcaacacttt ctctgccttg tgccaagggc tggacactgc 420
 atctcagatg caggggctgg ttttggggtt ttctgcttg tgccaagggc tggacactgc 480
 tggggggctg gaaagccctc ccttctgtgc cttctgtggc ctccatcccc tcatgggtgc 540
 tgccatcctt cctggagaga gggagggtgaa agctgggtgt agcccagtgg gttcccgcgc 600
 actcaccag gagctggctg ggccaggacc gggagaggga gcactgctgc cctcctggcc 660
 ctgctccttc cgcagttagg ggtggaccga gcctcgcttt cccactgtt ctggaggga 720
 ggggaaggag ggggtcttca ggctggagcc aggtcggggg tgctgggtgg agagatgaga 780
 tttagggggg gcctcatggg gtgggcaggc ctgggggtgaa atgagaaagg cccagaacgt 840
 gcaggtctgc ggaggggaag tgtcctgagt gaaggagggg acccccatcc tgggggatgc 900
 tgggagtgcg tgagtgcgat ggctgagtga ggggtatggg gagcctgagg ttttatgggc 960
 ctgtgtatcc ccttctcccg gcccagcct gcctccctcc tgcccgctg gccacagggt 1020
 ctccctctgg tccctgtccc tctgggtggt ggggatggag cgccancaa ggggtgtaatg 1080
 gggctgggtt ctgtcttcta caggccaccc cgaggctctc agtggttgcc tggggagccg 1140
 gacggggctc ctgaggggta cagggttgggt gggccctccc tgagggtctg gggtcaggct 1200
 ttggcctctg ctgcctctca gtcaccaagt cactccctc tgaaaatcca gtcccttctt 1260
 tggatgtcct tgtgagtcac tctgggcctg gctgtcgtcc ctctcagct tcttgttcc 1320
 gggacaaggg tcaagccagg atgggcccag gcctgggatc cccacccca ggaccccccag 1380
 gccccctccc ctgctgcttt gcggggggga gggcagaaat ggactccttt tgggtccccg 1440
 aggtgggggc cctcccagc cctgcaccc cctgcccsta gacctgctcc ccagaggagg 1500
 ggcttgacc cacaggagct gtgtgggcgc ctggcactca gggaccccca gctgccccag 1560
 ccttgggtctc tggcgcactc cttccctctt gtcccgaaga tctgcgcctc tagtgcttct 1620
 tgaggggttc ccatcatccc tccctgatat tgtattgaaa atattatgca cactgttcat 1680
 gcttctacta atcaataaac gctttattta aagccaaaaa aaaaaaaaaa aaactcgrgg 1740
 gggggccsgt accmaattcg ccanatagtg atcgat 1777

<210> 117
 <211> 1489
 <212> DNA
 <213> Homo sapiens

<400> 117
 cccctcccc tttttttttt tttttttttt tttttttttt tctactattca aaatgctttg 60
 ataacttta tttttgtttc tgggtgctgag atattatgaa aggaactgca tttgcaactt 120
 attaaatact tccaggaaca aatagttcac tttgcttggg acttgtagtt ttgagtaatt 180
 aatcatccat ggagcaggag ccagtcagga gatacccggt ggtaccactg gtcccattgg 240
 tgggtgtcgc agtgtgggga ttcttcccg gaggttctga gtccctctca tctgagctag 300
 actcaatc acttcgatca tcttgggaca ccttgcctct tgaaacagct ttgcaagcta 360
 ttttcacaat caagtaagac cagaagcagt tcaacccttg tactagcaat agcagtaggt 420

09950082 091201

taaaaaccca	ccaggaaggg	taaggtccaa	cgatctccca	gctttcaaat	aatgtggtat	480
ttaacaccca	gagaggaaat	acccagtcgt	gtggtgataa	aaaccacggc	aaacataaca	540
aacaggagat	cacacatttt	ctgaaacttg	gcataatttg	ccattttggc	agcctccaga	600
agagcatcag	ctgaatcatg	aacacaaagg	accagcggtc	ctactcgggc	catattgttg	660
acatatgaaa	aggtaatcaa	caaaatatat	acaaggtggt	gcaggaacat	aatgccaaag	720
tcctttcttt	tgatatcagt	gaattgagaa	atcatcaaag	accaataaaa	cgacagctcc	780
aggatgtaat	agtagtgaag	gtcagttgtg	agtggctgat	aggggtagtt	gtaccagcaa	840
tgctcgtat	tccacaacca	gggggtcttt	ttcaggaatc	tgactccgta	ggtaaataca	900
taaaggtaaa	atgaaaatct	ccacatgctc	tcacagaacc	tcgtcagcgt	gcttggtctc	960
tcctgattgc	gtctttgtcg	aaaccagcgc	tgaatgcttc	gaacatccca	gtccagttgc	1020
ttggagaggg	cttccaatct	cttttcatca	ggatgctttg	taattgcagt	gaagaccttt	1080
tccagaatgg	cattggggcg	agcaatttgt	gggccatttg	cctgaatgtt	gagggctatg	1140
gcgcacggtt	tggctacaaa	tctctcgaag	atgagccgca	ccatgaagat	acagaaggcc	1200
aggggaaaag	cgagatagag	gtcctcagcc	tgcgggaagg	tggcctcctc	cgtgttcttc	1260
aggtccgccc	aggtgacatt	gtgcggggagc	caaaacctct	cgttccagaa	ccaggctaag	1320
atccctgcca	tcttgctttg	tccactcctg	tccctgcggca	cccgcagctc	cgccaagctc	1380
tccaccgcgc	agggcgcccc	gggatgcctg	cccggctggc	cccagcctg	tgccgcgcgc	1440
gccgctgctc	ccgcccgcgc	ccgcgcgcctc	ctccgcggcc	gctctagag		1489

<210> 118
 <211> 645
 <212> DNA
 <213> Homo sapiens

<400> 118						
aattcccggg	tcgaccacag	cgctccggcg	gactatgact	tagttgcgtt	acaccctttc	60
ttgacaaaac	ctaacttgcg	cagaaaacaa	gatgagattg	gcatggcttt	atttgttttt	120
ttttgttttg	ttttggtttt	tttttttttt	ttggcttgac	tcaggattta	aaaactggaa	180
cggtgaaggt	gacagcagtc	ggttggagcg	agcatcccc	aaagttcaca	atgtggccga	240
ggactttgat	tgacacattg	tgttttttta	atagtcattc	caaatatgag	atgcattgtt	300
acaggaagtc	ccttgccatc	ctaaaagcca	ccccacttct	ctctaaggag	aatggcccag	360
tcctctccca	agtccacaca	ggggaggtga	tagcattgct	ttcgtgtaaa	ttatgtaatg	420
caaaattttt	ttaatcttcg	ccttaatact	tttttatttt	gttttatttt	gaatgatgag	480
ccttcgtgcc	cccccttccc	cctttttctg	ttcccaactt	gagatgtatg	aaggcttttg	540
gtctccctgg	gagtggtggg	aggcagccag	ggcttacctg	tacactgact	tgagaccagt	600
tgaataaaaag	tgcacacctt	aaaaaaaaaa	aaaaaaaaaa	aaaaa		645

<210> 119
 <211> 701
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (670)
 <223> n equals a,t,g, or c

<400> 119						
ccacgcgtcc	ggttgcttct	cagtatcatg	ttgcttctca	gtattgtgtt	gcttctgatt	60
ctatgaatgt	tcatttttaag	accccttggt	gaaatgggac	agttggcagc	ggctctgatg	120
agcccagaaa	gaggcctgcc	cttggttgcg	gagtctccct	ccgcacgatg	ctcccacgcg	180
tcacaacttg	acccaagggg	cttttccctc	ttccaagtgg	actccttcaa	ggaagctgca	240
gctcggtcag	cagagaaggg	gcctgccgcc	agcgccctgg	aggaagagga	agaggaaccc	300
aagaggatgg	cttgtctccc	agcagccaca	ccggctttgt	gctcagccag	ttcatttgag	360
tttgcatgtt	tctctgcact	atggattttg	agcatttaga	tttctttaat	caaaagcggt	420
ttagtgactc	cagcagaccc	actgtcccag	aaaagcctga	tcctgtagtt	tatgtagaat	480
gccacatctg	cgctctcaag	acctgtttca	tccatttggt	aaaagatgtt	gggaaaggcc	540
actttgctcg	caggggtgag	gggaaggata	gagaatctat	ttttaataaa	taacattcta	600
gaaagaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	660
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	a		701

<210> 120
 <211> 1063
 <212> DNA
 <213> Homo sapiens

<400> 120
 acgcgtccgc taattcccg agcccttggg gagaccatgg gctgcaggag agcagatgag 60
 actgtggctg ggtgtccaga gctgctgcct gctccggcac cttcatggaa tggcattggc 120
 ctcaagtcct cgctgcctct tactggctgt gtgaccttgg gcaggccagg tagcctcagc 180
 ttcttagaga atgtatgtaa tgggcttggc atacagaata tggcacatag taggtactca 240
 actattatta ttctgtatct aatagctaat tggctggcat ttgctcagca ctctgcatac 300
 attgggccat tgcgaggtct ctgcctgca tcttagtttg ctaattagggt gcttatcttg 360
 gaccttcttg gagcaggcat tctctgctcc attctctcct ctgtacgctg gacagcccca 420
 acccttggtc cccagcagg agcaaaagg gttgggtatg atgacctcca gctcaatgtc 480
 taaggatctc tgggtttcag ttccccctc ggccagctcc tcctgcccct accagccacc 540
 tcccaagctg gggatttcac tggccccac cactctcagc cagaatccta gactcctcca 600
 gcccttccct ctctggcctt cactctcac atctcagcc cagcacagga gccaattttg 660
 caaagaggta aagagacctc accactgctg caccagtctg tccatttctt agcaggcaac 720
 tggcacttgt ttggttttat aaattaagggt ttcgattctt ggccaggcgc gatgcctcac 780
 acctgtaatc ccagcacttt gggaggccaa ggggttggtg attacctgag gttaggagtt 840
 caagatcagc tctgccaaca tggcgaaacc ctgtctctac taaaaatata aaataattag 900
 cagggcgctg tgatgcgcac ctgtaatccc agctactcag gaggctgagg caggagaatc 960
 gcttgaacct gggaggctgc agtgagccaa gatcacgcca ttgcactcca gcctgggcaa 1020
 caagagcaaa actccatctc aaaaaaaaaa aaaaaaaaaa aaa 1063

<210> 121
 <211> 552
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (69)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (128)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (164)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (198)
 <223> n equals a,t,g, or c

<400> 121
 cancttccgc cccattgacg caaatgggct gtaggcgtgt acgggtggaag gtctatataa 60
 gcagagctng tttagtgaac cgtcagatcg cctggagacg ccatccacgc tgttttgacc 120
 tccatagnag acaccgggac cgatccagcc tccggactct agcntaggcc gcgggacggg 180
 ataacaattt cacacagnaa acagctatga ccactaggct tttgcaaaaa gctatttagg 240
 tgacactata gaagggtacsc ctgcmggtac cgggtccggaa ttcccgggtc gactgcgcgc 300

0950082-091201

ccggcgccgw	ttcccacgat	tgccacgatg	ctgtccacgc	tgatgaacct	cgccctgccg	360
ctgaccgcggc	tgacacatgcc	cgcgggagcc	ggcgatgctg	atggcctcgg	cgctgagccg	420
ctgcgcgggg	gcggccgtgc	tggtgctgct	gctgtggctg	gcggtggact	ggcgctgat	480
gtgagcgctc	cggtgccggc	gggcggcgctg	ctgctgaggc	tggtatcggt	gacgctcgcg	540
cgaggcgggc	gc					552

<210> 122
 <211> 1756
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (907)
 <223> n equals a,t,g, or c

<400> 122						
tgcacccacg	cgtccgaaaa	aagtccctag	tttattgggt	gttctcacac	aacctgtaag	60
atgaagctgt	ttttctgcct	gtgtgcaggg	ctgattctgg	aattccagaa	ggccttgtgg	120
gagcgtaaaa	ggcttttgaa	taaagtgtgg	aacagagcgc	ctcattctga	taacatgcaa	180
tcataaaaaac	catagggcaa	cttgaggtta	aggagtttct	agaatttgct	ttagtctcca	240
actgcaattc	tttattgata	atgaaattgt	tgaagagaaa	cacaaatgtc	agttttacct	300
ttcctgtggg	catgaaagca	catcgaagtt	tcaggcaact	gttaacatct	ctaccatctg	360
tctgagttga	gatttcaggt	tgtgacactt	gccgtgactt	atttgtaa	gacatttctg	420
tgtcttagat	actaatggaa	ttcatattct	ggctagtctt	ttcagtgc	ttgtagacat	480
gttcttttcc	tttgtagcag	tcctccctca	ccctgaaatg	ttggtgttct	aaccgatttc	540
taatgcta	ttcaactgga	agcacttttt	caagcccagc	tatcaaacca	caccagacat	600
gtatggattc	gggttgccca	ataaagcggt	gctattatgt	aagcatccct	cacgcataca	660
gcatcaccag	ttttgaaagc	ttgaactatt	ctgcttactt	caaggtacag	aaaaaaaaat	720
gtacttaaac	tgtgcagaaa	agatgaaatc	actggataat	atgtattata	aaataagctt	780
catgtgagtg	acactgggtt	aagttgaaat	aaaatgggtga	aagcattgat	atcaatcatt	840
gtgactttat	ctcaaaacaa	tattgacaca	catagatgtt	tttcttgc	tatggtaaga	900
ttacagnctt	tattgtctta	aatctgttat	actcttcaat	atcttcaaag	aaaacattct	960
agtctcagaa	atagtcctatc	tctttgcaaa	acagggctgg	ccaattatca	aggaccata	1020
aaaatcaaaa	cactttcaaa	aatttttaaa	ataaaaaataa	ttttcacatg	attgcttttag	1080
gaattttgaa	gtatccattc	ttttcactat	ggagtgttga	atatagaaga	ttttttaatg	1140
aacaggcttg	ccctttgatg	ccaaaggcaa	aaaataataa	taataacatt	tgcacgtgtg	1200
atcacagagc	agctgtgagg	catcccgggg	gagcgacgc	agtggggatg	tgattgctcc	1260
actcaactat	tttatcacaa	agtgttgtaa	acatgggaga	tgaaagctta	actctctcta	1320
caccagcta	cagaccgcga	atggccctaa	aaatctgggg	tattcattgg	gtgggctgcc	1380
atggaggaa	ttttggtttt	gtttttat	ttatttggtg	ttctgtttac	aatcaggag	1440
agccctgtt	tttatatgct	aggaaggctc	ttgggatagg	ccgaagaggt	gtgcaaacga	1500
gcagtggaag	gcccgggccc	tgtctctcag	gaccacggcg	gcctgcccc	cacacagttc	1560
tgcttctccc	tatctagaac	gagggtttcc	tggcagattc	ctgccagact	ctgagtggag	1620
cccccccatg	accctataaa	aggggctgtt	tgctctctc	ccaccctcct	gtgctcttcc	1680
tccctccct	tgagggcaca	tggccgctgg	taccacatgt	tggagcgggc	gctctagagg	1740
atccctcgag	gggccc					1756

<210> 123
 <211> 1547
 <212> DNA
 <213> Homo sapiens

<400> 123						
gcattttttta	acctgaagta	tctcaccagg	gttccactgg	ggaccttcct	atcttccac	60
cctgtcatct	acctaggtga	cccagcctgt	tctgttggct	ttaaaaaat	taaaagaaa	120
atttttttat	ggctacacag	cagtgtatat	atwrtwgct	ctgttggctt	tttatatact	180
ctctatatag	aaggaagttg	aacatggatc	ataccttctc	cccagagttc	tccttttagct	240
tgcaggtgcc	acaaaattac	tgtgtcctga	actgagcttc	tgggcctctc	gctgtcccca	300
gttcctgtgc	ctgcgcac	gagggtgtgg	tgagtcttca	tgtgtgtctt	tgtctccatt	360
ctgtagccac	cccatcctgt	tctcctcacg	tccatttgtc	ctacatcctt	tcctgtcatc	420

095005660

ccttttgaag	aacagccttt	tatggactgc	agtaccttgg	gggacgaatg	cagggctcctg	480
agcatggcat	cagtgatgta	gaagcccttt	ggggattgag	gcctcttcaa	cctcttcctc	540
cagtctcact	ttctgatcat	tcacctgggc	tctctttttt	tgccaaaaca	cttttctctt	600
ccccagccat	ctccctccat	cctgcttttc	atagcaccct	ggcacttata	ttagcagaag	660
gccgttactc	ctctgttttg	aaattacctt	tctcagggtg	ccaagtttc	tgagtctcat	720
gcacctgtct	ccctagcacc	taacctcata	cctgcacacct	gggtgaagag	ctgaaggaat	780
gggtgaaggg	ctgacaactg	ggtgaagagc	tgcagaagga	atgcaagctc	atgcttttac	840
atttaragct	tttacattga	ttacttgat	gttttgagc	cctccacggt	caacctgcaa	900
ccatattgcc	attgaaatac	agactagtat	tkgtgtttta	ggctgtatct	tttattttta	960
gttttatttt	ttgagacagg	gtctcagctc	gtcacctagg	cttttagtgca	gtggcatcat	1020
cttagctcac	tgcaacctcc	gcctcctggg	cttaagggat	cctccaacct	cagcctcttg	1080
agtagctggg	accacagtca	cctgccacca	cggctggctg	atttttgtat	tttttttgta	1140
gagttggggg	ttcacgttgt	tgcgcagctc	tgtctcgaac	tcctggggctc	aagtgatcca	1200
cccgccttag	cctcaciaag	tgctgggatt	acaggcgtga	gccactgcgc	ctggcccaga	1260
gactgtatta	ttattattat	ttttgagacg	gagtctcact	ctgcactcca	gcctgggcga	1320
cagagcgaga	ctccgtctca	aaagaaaaca	aaacaaaaca	aaaacaaaaa	ataagccggg	1380
cgtagcgaca	tgagcctgta	gtcccagcta	ctccagaggc	tgaggcagga	gaagtgcctg	1440
aactcaggag	gtggagggtg	cagtgaagctg	agatcgcgca	actgcactcc	agcctgggtg	1500
acggcaagac	tccatctcaa	aaaaaaaaaa	aaaaaaaggg	cggccgc		1547

<210> 124
 <211> 377
 <212> DNA
 <213> Homo sapiens

<400> 124	aattccccggg	attttaataa	tcaacacctt	cctagcctta	ctactaataa	ttattacatt	60
	ttgactacca	caactcaacg	gctacataga	aaaatccacc	ccttacgagt	gcggcttcga	120
	ccctatatcc	cccgcgccgc	tccctttctc	cataaaattc	ttcttagtag	ctattacctt	180
	cttattattt	gatctagaaa	ttgccctcct	tttaccctta	ccatgagccc	tacaaacaac	240
	taacctgcca	ctaatagtta	tgtcatccct	cttattaatc	atcatcctag	ccctaagtct	300
	ggcctatgag	tgactacaaa	aaggattaga	ctgaaccgaa	taaaaaaaaa	aaaaaaaaaa	360
	aaaaaaaaaa	aaaaaaa					377

<210> 125
 <211> 660
 <212> DNA
 <213> Homo sapiens

<400> 125	ccacgcgtcc	gtgaagacat	caccgagccg	cagagcatcc	tggcggctgc	agagaaggct	60
	ggtatgtctg	cagaacaagc	ccagggactt	ctggaaaaga	tcgcaacgcc	aaagggtgaag	120
	aaccagctca	aggagaccac	tgaggcagcc	tgcagatacg	gagcctttgg	gctgcccatc	180
	accgtggccc	atgtggatgg	ccaaacccac	atgttatttg	gctctgaccg	gatggagctg	240
	ctggcgcacc	tgctgggaga	gaagtggatg	ggccctatac	ctccagccgt	gaatgccaga	300
	ctttaagatt	gcccggagga	agcaaaactc	tcgtataaaa	aaagcaggcc	atctgcttaa	360
	cccttggtc	caccataagg	cactgggact	cggatttctc	tatctgatag	aggtattttc	420
	tgtggccctg	ggagctgtct	gtcttttccc	taccccccaag	gatgccagga	agacgtccac	480
	cattagccat	gtggcaacct	ttactttctat	gcctcacaag	tgcttttcag	agagccccaa	540
	ttctgctttc	ccacaaaata	aacctaatgc	catcaggcaa	aaaaaaaaaa	aaaaaaaaaa	600
	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	660

<210> 126
 <211> 678
 <212> DNA
 <213> Homo sapiens

<400> 126	tcgaccacg	cgtccgggtg	tagctgggat	tacaggcgca	cgtgtgccac	cacgtccagt	60
	taatagagat	tttcagtaga	gacgaggttt	cacctgttg	gtcaggctgg	tctcgaactc	120
	ctgaacaagg	gagacttcta	agaaggtagg	agttgagcaa	gaaatggctg	ctatggtttt	180

cctcctcctg	agcatcacaa	ccatctgggg	agctttcaaa	aatgaagtt	gctcagccgt	240
tgagaactgc	tggaaagccc	agcttaacaa	gttggttgct	tgggtggact	ctgcttgggg	300
gtgcagcggg	gggttctttc	cagtcctggt	gtgttgctgg	gatgaagcag	agagccctag	360
aactgttctc	tccatcccac	ttacggcaag	ggctgttctc	ctgtcaggcc	agtccttggg	420
ggcaatgaca	gcagcaggaa	cattctggta	agtgtgtggt	ttccctccca	gtgagcaggc	480
taaccctgag	tataggaact	taggggaggt	taggtggctg	atgcatgttt	tccagaccgg	540
tttgatatctg	cttgtcattg	atcttagaag	ttcatattat	ggtggaatta	tctatttgca	600
tgtgtaaact	ttgaatatgt	ttttaacttt	taataaaaag	ttattttttac	aaaaaaaaaa	660
aaaaaaaaaa	aaaaaaaa					678

<210> 127

<211> 2261

<212> DNA

<213> Homo sapiens

<400> 127

ccacgcgtcc	ggtgcaatgc	tcttacaaac	gcttgactcc	atgttaaagc	tttagcctta	60
actacttcat	tttctttcaa	aaactgtact	ggaatatattg	tgaaaagaat	gaaaaatatg	120
gaataaattc	ataaatacac	aaagagagag	agctctaggt	atatgtcaag	tctggattaa	180
agacagatct	gtgtttatatt	ttatgaagca	tcttctgact	ttgatccaaa	gcaaaacttc	240
ttccatggcc	ccattttaatc	cttggtgcac	ccctgggaag	ggaaatgctg	ctgtcccaact	300
ttgcagatga	ggggctgcat	gttccaggcc	acccctctca	tgggctgagc	agcctgggtg	360
caggtctcat	ggtggcgcca	ctttgccatt	gtccctactt	tggcttctgt	aaacaccctc	420
tgaggttggt	gagctctctg	gggaaacagg	ctagcaccag	ttaatacaca	gagggagaac	480
aatcagtaac	tttgttcttg	tgcccagatt	ggtggaagtc	accctatgtg	gagaggagga	540
ctttgaaactc	agacctggac	ttccctctgg	gacctttccc	tacactgtct	gacctggggc	600
tggtcgtcac	ctcttccaac	ctttgcatcc	tgctctgtaa	aatgagaata	agaacaccat	660
cctctccaca	ttattagaag	gattaaaatt	aatgtatctg	aaggttctta	acagtgtcac	720
acactcatcg	ttagtgattg	tcattctcagt	catgtctcct	gtttatcgat	gccccttttg	780
tagccaaacc	ctctgcccc	gtggtattgg	gccttgccgg	gaggaccaca	cctgagcata	840
cagtgaagtt	cacctgtgag	tcccatggct	tctctcccag	agacatcacc	ctgaaatggg	900
tcaaaaatgg	gaatgagctc	tcagacttcc	agaccaacgt	ggacccca	ggacagagtg	960
tggcctacag	catccgcagc	acagccaggg	tggtaactga	cccctgggac	gttcgctctc	1020
aggtcatctg	cgaggtggcc	catgtcacct	tgcaggggga	ccctcttctg	gggactgcca	1080
acttgtctga	ggccatccga	ggtagaggac	cctcacaccc	agcccaagcc	cacacctggc	1140
tgtcaagccc	actcccctct	ccccaggctg	ttgctccaag	gttgaatggc	ctgtaatcta	1200
atccctgact	atactgcccg	ccgccatgca	cctaggtgtg	ctggtcactt	actatcattt	1260
tattggcagc	ggtcagggga	ccagcaatca	cgtgccaaag	tctgcgctag	agagtttcat	1320
ttatctcacc	aagaacaact	actattattc	caccacacct	ggaggttact	caacagccca	1380
tgagggcggg	gaaccaggta	aacgtcacct	gccagggtgag	gaagttctac	ccccagagcc	1440
tacagctgac	ctggttggag	aatggaaacg	tgtgccagag	agaaacagcc	tcgaccctta	1500
cagagaacaa	ggatggtacc	tacaactgga	caagctgggt	cctggtgaac	atatctgacc	1560
aaagggatga	tgtgttcctc	acctgccagg	tgaagcatga	tgggcagctg	gcggtcagca	1620
aacgccttgc	cctggaggtc	acagtccacc	agaaggccag	agctcagatg	ctacccctgg	1680
cccggcatca	tctcttactg	cgctgtctct	catagctgtc	tcctggggcc	catctacgtc	1740
ccctgaagca	gaagacctga	ctctccttcc	tctctccctc	gccacgtggg	accctcatct	1800
ctgctgcctc	cttcctttcc	tgagaggctc	agcttgagag	aatgagccag	tgagaagctt	1860
ctctagactt	ggctccaaac	atctccctcc	ccaagacatc	tgcttgccca	caggctcctg	1920
ttgctccttc	acacagacct	ggatgcccc	gagcaaggct	ttcattcatg	gtcctgagca	1980
ggggccatgg	gattgggctc	tgggcaactga	cttaacggga	cctccctaga	aggcgagaaa	2040
catgccaaat	ctaaacacac	caggactccc	atccatcgcc	ttgagactga	ccgtaaacca	2100
cagacgctct	ccaggttctc	aagagttatc	ctgccttcca	gattcctgcc	tatcccaact	2160
ccccagcctt	gttgagggtc	tctattgcct	cttgaataca	aatgcactcc	caaagtgggt	2220
ttaagaaaat	aaaaagatta	tccttcaaaa	aaaaaaaaaa	a		2261

<210> 128

<211> 525

<212> DNA

<213> Homo sapiens

<400> 128

09500560 " 2805601

aattccccggg	tcgacccacg	cgtccgcagt	ataatgcttg	ccagaaaaaa	atagggttagg	60
agatcttgat	aatagtttaa	tatgatctgt	atcttttaaaa	tactagaagg	ttactttaata	120
taccacattt	ccaagtccaa	acggtgatca	gagaacccca	aaataaaaatt	ttggcactga	180
attcatagga	atacaattat	tttaaagcat	tagaaggaaa	gagaactcat	agtctgtgtt	240
actgtgctgg	gtgggcttag	gtttggggct	tgtttgattt	ttgttttacc	aatttagatt	300
cctttccaca	cttgccctgt	accacaagta	aggattgagg	ttaaatgggt	tttcatcttt	360
tattgggatt	ggtgaacctt	ttaggattgg	taaactgctt	tctcttgggc	aagccaaact	420
atctctcact	aattgtttca	atagtggccc	ctttgacctt	cctcttttcc	tttatctcaa	480
acattaaaaa	aaaaaaaaaa	aagggcgggc	gctctagagg	atccc		525

<210> 129

<211> 1663

<212> DNA

<213> Homo sapiens

<400> 129

ggtattaagt	ccatcttgtg	ttggtacatt	ggcagagaca	tatgctttaa	aaacttaaat	60
atttcggagg	cacatgttgg	actactttgt	tttaattaaa	ctgctagtat	ttctttgtca	120
aggatgtttc	tagttttttg	ctttattgcc	ttgcattcta	atgcagtttg	ttctgtaact	180
cgagagccag	tagcattgga	ttgatggaag	tgtagggttt	atgaattatt	gcagctgact	240
accatacctc	acacagcggt	ggtgttgtga	gcggcccatg	aaaagccaaa	ttaaaaatca	300
aggattcagt	caaactaagc	aggtaactcat	gccaggtact	cctttctcta	cccacatcca	360
tgtttgaatg	ctattgcctg	tgatctttac	gcttaactgt	tgtgtatctt	ttttgttctt	420
tacaagaagt	gcagaggggt	ttttttgtga	ttgcgtgaaa	acttataaaa	caaagtgtta	480
cagaatggaa	ttttttttca	actgtatgta	gggctgcagt	ggtggccaga	attagatata	540
tttaaagaat	tttaaataca	ataaacactt	catattattc	gccttgttac	actcaatgca	600
attctcaagt	ctataagagg	tatgtgctta	atattttccta	ctgtgtagga	gaatttgcag	660
tcagccatag	gtatgtagga	atagtcactc	actggctgat	acattttaaag	cagcagtgtg	720
aatagcaagg	acagacacct	tcaatttgtg	aaatcaaaga	actgatgcac	tatatagaac	780
gaatttgggt	ttttaaagaa	atattaaaag	ttagggtactg	taagtgttct	taaaacctgt	840
aaacttcatt	ctgtgggcta	gtggtgtggg	acaaaatatt	cctaataaaa	ggaagtacca	900
attagttgat	ttgttgggtg	cattccccct	ttgggaaagc	aatgtaagg	tatgtctgtg	960
tatgtcattc	acacttaggc	aagcatacac	aggcacatgg	ctttaagaac	cacactgatg	1020
ccttgataat	taaaaagaat	acaagcattc	catgtacaca	tgtaatttag	cagttagtga	1080
ctgggccaac	actttctcat	aaaaattggc	cttttacatg	ttgtctaatt	atcatttttc	1140
cccaaatttt	gcgttgtagg	actactgttc	gaagattttt	ggaagaatac	tgagaacggc	1200
ataaagtga	gatcgacatt	taaaaaatga	ggtgaaagaa	agctatagtg	gcatagaaaa	1260
agtataaagc	tcagtttagt	tttttattat	tattattatt	aaaagttaat	tcaggactga	1320
tgtgacctac	cagatttcag	aacatgtgtt	aatagtatat	atgccactga	aaacttaggt	1380
cctgtatcat	acttttttct	ttaagacttt	ttaagaaata	ttactttaa	atgtggcttg	1440
ctcagtgttt	aattgcaagt	tttcaatctt	ggactttgaa	aacaggatta	aacgttagta	1500
ttcgtgtgaa	tcagactaag	tgggatttca	tttttacaac	tctgctctac	ttagcctttg	1560
gatttagaag	taaaaataaa	gtatctctga	ctttctgtta	aaaaaaaaaa	aaaaaaaaaa	1620
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaactc	gag		1663

<210> 130

<211> 3034

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> n equals a,t,g, or c

<400> 130

aaggntaccg	tcctctccct	cccaagtgtc	gagccactgc	gctcggccag	cgtaaatttc	60
ttctaaagat	acatttttagc	tattaaaaaa	atctatttta	gctatagcta	cagcttttag	120
ctatcagtag	ctatagataa	aaataactat	attctaata	ggcttaaatg	gagatatgac	180
cctctcattg	atattttcct	atgtgttaatt	atttttgaag	cattgtgagt	tctgtgaaat	240
tttgctattt	attgaactat	gaaagcactt	gattttctta	actcttgagt	gccagaaatt	300

09950082-091201

0950082.091001

tggaagaat	attcctgagg	attagacaaa	taatgatacc	ttgtgtatat	acatggtggt	360
ggaatgtcta	catttccctt	aagggcatca	attccataag	ttggtctaca	gataacttca	420
cattagttga	ccattgttta	acaatgcttt	aaagttacat	ttgcataaga	atccaacttg	480
atTTTTctag	gaaaagttaa	ggaaaagaac	cgaagaacct	gatcgtgatg	agcgtctaaa	540
aaaggagaag	caagaaagag	aagaaagaga	aaaagaacgg	gagagagaaa	gggaagaaag	600
agaaaggaaa	agacgaaggg	aagaggaaga	aagagaaaaa	gaaagggctc	gtgacagaga	660
aagaagaaaag	agaagtcggt	cacgaagtag	acactcaagc	cgaacatcag	acagaagatg	720
cagcaggtct	cgggaccaca	aaaggtcacg	aagtagagaa	agaaggcgga	gcagaagtag	780
agatcgacga	agaagcagaa	gccatgatcg	atcagaaaaga	aaacacagat	ctcgaagtcg	840
ggatcgaaga	agatcaaaaa	gccgggatcg	aaagtcatat	aagcacagga	gcaaaagtcg	900
ggacagagaa	caagatagaa	aatccaagga	gaaagaaaag	aggggatctg	atgataaaaa	960
aagtagtgtg	aagtccggta	gtcgagaaaa	gcagagtga	gacacaaaca	ctgaatcgaa	1020
ggaaagtgrt	actaagaatg	aggtcaatgg	gaccagtga	gacattaaat	ctgaagtga	1080
gctktaagta	tgcacagatg	aagatggaac	taagccgagt	aagaagacat	acaaaagcct	1140
cttctgaagg	aaaagacagt	gtagtccctgc	aaaacatttt	gagggtacatt	gttttgtctc	1200
agctattttg	tagcagactc	gtgcccccat	tagtgtgcct	ctttggaaat	tatcgccac	1260
atttgaata	tagtcgccat	tgaaaagtta	attatccctt	ttttagggat	tttgatgtca	1320
tttctttttt	ttttttaata	aaaagggtga	actgtttttt	ttttctttt	tggtattaag	1380
tccatcttgt	gttggtacat	tggcagagac	atatgcttta	aaaacttaaa	tatttcggag	1440
gcacatgttg	gactactttg	ttttaattaa	actgctagta	tttctttgtc	aaggatgttt	1500
ctagtttttt	gctttattgc	cttgcatctc	aatgcagttt	gttctgtaac	tcgagagcca	1560
gtagcattgg	attgatggaa	gtgtaggggt	tatgaattat	tgcagctgac	taccatacct	1620
cacacagcgt	tggtgttgtg	agcggcccat	gaaaagccaa	attaaaaatc	aaggattcag	1680
tcaaactaag	caggtactca	tgccaggtac	tcctttctct	acccacatcc	atgtttgaat	1740
gctattgcct	gtgatcttta	cgcttaactg	tttgttatct	ttttgttct	ttacaagaag	1800
tgcagagggg	ttttttgtgt	attgcgtgaa	aacttataaa	acaaatgtta	acagaatgga	1860
attttttttc	aactgtatgt	agggtgcag	tggtggccag	aattagatat	ctttaagaa	1920
ttttaaatat	aataaacact	tcataattat	cgccttgta	cactcaatgc	aattctcaag	1980
tctataagag	gtatgtgctt	aataatttct	actgtgtagg	agaatttgca	gtcagccata	2040
ggtatgtagg	aatagtcact	cactggctga	tacatttaaa	gcagcagtg	gaatagcaag	2100
gacagacacc	ttcaattttg	gaaatcaaag	aactgatgca	ctatatagaa	cgaatttggg	2160
tttttaagaa	aatattaaaa	gttaggtact	gtaagtgttc	ttaaaacctg	taaacttcat	2220
tctgtgggct	agtgggtgtg	gacaaaatat	tcctaatgaa	aggaagtacc	aattagttga	2280
tttgttggtg	gcattcccc	tttgggaaag	caatgtaagg	ttatgtctgt	gtatgtcatt	2340
cacacttagg	caagcataca	caggcacatg	gctttaagaa	ccacactgat	gccttgataa	2400
ttaaaaagaa	tacaagcatt	ccatgtacac	atgttaatta	gcagtttagt	actgggccaa	2460
cactttctca	taaaaattgg	cctttttacat	gttgtctaat	tatcattttt	ccccaatttt	2520
tgcgttgtag	gactactggt	cgaagatttt	tggaagaata	ctgagaacgg	cataaagtga	2580
agatcgacat	ttaaaaaatg	aggtgaaaga	aagctatagt	ggcatagaaa	aagtataaag	2640
ctcagttagt	ttttttatta	ttattattat	taaaagttaa	ttcaggactg	atgtgacct	2700
ccagatttca	gaacatgtgt	taatagtata	tatgccactg	aaaacttagg	tcctgtatca	2760
tacttttttc	tttaagactt	tttaagaaat	attacttaaa	catgtggctt	gctcagtgtt	2820
taattgcaag	ttttcaatct	tggactttga	aaacggtagt	aaacgttagt	attcgtgtga	2880
atcagactaa	gtgggatttc	atttttacia	ctctgctcta	cttagccttt	ggatttagaa	2940
gtaaaaataa	agtatctctg	actttctgtt	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	3000
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	cgag			3034

<210> 131
 <211> 809
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (372)
 <223> n equals a,t,g, or c

<400> 131						
ggctgcagga	attcggcacg	agtgttaggg	taaaaagtga	attaaagcaa	caggactatt	60
tataaaataa	ttagattttag	aaagcagtcg	tagaaatata	agcctggagt	tgctctgaa	120
ttacatattt	aacaaaccta	gaagctaaat	cagtttgtct	tttatcaaaa	ctgcaactcc	180

tctaagttga	aagcacagt	acaagagaaa	gcattacaaa	ttcttgagaa	ataatagaaa	240
ttaaagctct	tttcaaacct	gtgaacaagt	atagtaccag	aagtataaga	ttcagatagg	300
ccaagttgt	agttcttgtt	atgagttctt	caaccctatg	gactttggac	aaattacttc	360
tctgcgtctg	tnctctcatc	tgtaaaatga	aaataatttc	tgtttcatac	aggtatagtc	420
taaataggga	taattacacc	tacttcaaag	ttgtaaaata	cacaattaca	actagatagg	480
aggatataagt	tctagtgttc	tgtagcactg	taggatgact	atagttaaca	atattgtata	540
gtttcaaata	gctagaagaa	ggatattgca	tgttcccaaa	acaaagacat	aagtttttga	600
gatgatagat	atgctaatta	ccctaatac	tatatgttat	atgtattgca	acatcactat	660
gtaccccat	aaatatgtac	agttattgtg	tattaaaatt	tttttaaact	aaaattataa	720
gacattaaaa	aaaggatatca	catgtaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	780
aaaaaaaaaa	aaaaaaaaac	tcgaggggg				809

<210> 132

<211> 566

<212> DNA

<213> Homo sapiens

<400> 132

gagcagtgat	gcactcacc	agcttctggt	cctctttctt	ccacctctta	gagtgccttg	60
gctccctcct	gtcgtcctgg	ggaacctcgg	ccccagccct	gcctccccag	ccagtcacag	120
ctcctccctg	gtcaccctga	gggagctcag	ggccccgctg	gtagctgggt	tgctctgctt	180
ctgtccccga	ctcctgtgga	gcctggcagg	caactccatg	atctgacccc	ggttaccttg	240
acagccctgc	ctggcctccc	ctctcatggc	ccagccaccc	cagaacctga	agaggttttc	300
tagctgccgt	gcatttgcca	ggctgggtta	cccaccctac	tttccctgcc	tgccctccag	360
tgctgccagg	cctagtgtgc	cagccagcgc	tcagccttca	gtaaagggtt	cccctgcttc	420
caacctccat	tgcactgctt	cccctaagac	tgtgacctcc	tggaaggctg	gagcacaact	480
gcctctcaat	aaacgtgttg	caaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	540
aaaaaaaaaa	aaaaaaaaaa	aaaaaa				566

<210> 133

<211> 1569

<212> DNA

<213> Homo sapiens

<400> 133

tatcacctga	atccctgttc	aatgtaattt	tccagcagtg	atgaagaggc	ataattttta	60
tgctattagt	ctttccttta	gccatcacta	gatcccttac	tttaaccata	ttattttgtg	120
taatttcaca	gcaacaagt	gtcctgggtg	catccgaacg	gtaataatac	gccagcatga	180
gattgtcctg	aaggtggctt	atccacaggc	agacagcaac	ctccgaaaca	tcgtgaccga	240
gcagctggta	gccctgatcg	attgcttcct	ggatgggttat	gtttctcagc	ttaagtctgt	300
ggataaatcc	agtaatcggg	aaagatatga	caatctggag	atggaatacc	tacagaaaag	360
atcagatctc	ttatctcttc	ttcttttact	aggccagtag	ctgtgggctg	cttctctagc	420
agagaaatac	tgtgactttg	atatattggg	acaaatgtgt	gagcagactg	acaaccagag	480
ccgactccag	cgctacatga	cccagtttgc	tgatcagaat	ttttcagact	ttctcttccg	540
ttggtatctg	gagaaaggaa	agcgaggcaa	attattatct	cagcccattt	ctcagcatgg	600
acagttggca	aattttttgc	aagctcatga	acatctcagc	tggttacatg	aaattaatag	660
ccaagaatta	gaaaaggctc	atgcaacact	tctgggtttg	gcaaatatgg	aaactcgтта	720
ctttgcaaag	aagaaaaccc	ttcttggctt	gagtaaattg	gctgcattag	cttcagactt	780
ttcagaggat	atgctacaag	aaaaaattga	agaaatggct	gagcaggagc	gctttctact	840
gcacagggag	accctacctg	aacagctgct	ggcggagaaa	cagctaaatc	tcagtgcgat	900
gccagtattg	actgcaccac	aactcattgg	tctatatatc	tgtgaagaaa	atagaagagc	960
taatgaatat	gatttcaaga	aagctttgga	cttgttgga	tatatgtatg	aggaagaaga	1020
tataaatata	aatgatctaa	aactggaaat	ccttttgcaa	gctcttcaga	gagataactg	1080
gtccagttct	gatggcaaag	atgatccaat	tgaagtatct	aaagacagta	tattttgtgaa	1140
gatcttacag	aaacttttaa	aagatggcat	tcagctcagt	gagtacttac	cggaggtgaa	1200
agacctgcta	caagcggatc	agcttggga	cttaaagtc	aatccttact	tcgagtttgt	1260
tttgaaagca	aattatgaat	attatgttca	gggacaaata	taactttttc	taaaaatggc	1320
cattgtttat	gaaatctgta	taagtgtgtc	cttatacaaa	tttttaggcc	taaacaagt	1380
taagtttgta	caatttcata	acatgtatag	ctgagttttt	atactttata	tgtaggaagc	1440
taatataaaa	tagttatgta	actgtgattt	tggttttcag	ttatgtgact	tgttttttcc	1500
acctgaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1560

095005660-091201

aaaaaaaaa

1569

<210> 134
 <211> 1323
 <212> DNA
 <213> Homo sapiens

<400> 134
 agtctgtctc aaaaatgaat gaatgaatga atgaacgaat gaatgtacta tgagctgata 60
 ctgggatttc aggtaccgca gtttgtgtcg aatgatatgt ttggggtaaa tcagtttttt 120
 tcttayagaa tttcggcggt tttgctgcaa ctgccactaa ttttgcattht aaaagaacaa 180
 aagaggaatg tattttttcaa aggagtgaat gaggttaaaa tcaagatttt gaatgggtata 240
 aatatgcaac taatttcagtt gtaggatatt attaaatttt ttattgctaa atatgtttct 300
 ttcatacgtt gcagtgtcta cagttccaac agctttcca gaaaacattt ccatatttgt 360
 gttatttcta aagtatacat aaataatgta aaataatttg ggattatttc aactttacat 420
 tgtatgtctg aatttcacatg atgttgtacc tggctcagtc aatagttgtc acaggtatta 480
 agccattttg gaatttgcca cttttttctg ggtaacctgt tttagtttag tttacagcat 540
 ttagaaacag aaggtaactt tatagaagta acaccmatat cctagtctgc ttgccccgaa 600
 tataactaat agtrtttaggr tgtaagcaat attaatagtg kttttattat tttttatata 660
 ctgtgtgctt ttacttttta tttaaactac agcaaaaaaac tgatttttta actaaaattg 720
 aatggcgctt atcttaatga ccagttattg accaaagtgt actcagaaga tggtattatg 780
 tcccaatcta aggaatcctt taatttgggg attaatttta cttacacatg ccatttcagt 840
 ttcagttgcc tcattctatt acatcattct tgtcaagtct aagctttatc atgtctgaat 900
 tcttttaaca ctgaatctgt gatgtaaaaa tgtatgatgt gccataaatt ttattcataa 960
 taaactaagt tatagcctat tgtaatctgt aaaacatttc ttgtaaatata cctaatttat 1020
 tttttcattt atgtacagta tcttatgtaa atttgaaaaa tgtttgccat ggcgcatctt 1080
 gtaaacattc ccgtattctt ttccttaatg cttatttgca tgaaggtaac ttgggttttg 1140
 cttgtttgta ttggataacc attaatgcaa cttcagtttc tctgcctttt tttctgtagt 1200
 ttaaccattt ctaattttgt tcatattcta aatagatgtt agaatacaca tttttatttt 1260
 ctactttcta aataaattat ctaagttgtt tactaaaaaa aaaaaaaaaa aaaaaaactc 1320
 gag 1323

<210> 135
 <211> 845
 <212> DNA
 <213> Homo sapiens

<400> 135
 ggcacgagct ggtcctttgt aaactcctgt tgaacccctc atgccctttc cttgggtcttt 60
 taggtcttta atgtactttt caacagccca aagcccccaa cccagaaaaa gattccccct 120
 tcacagcact cccctccaat ccaacttccc actgagcaaa tgctgaaatc caggcactct 180
 tgcagattat tagatcaaaa taaaccatcc taagggtgtg gtgagattga gggggtaaaa 240
 ctacgggaag ccattgatgt tttaatgta gaacttcta atccaatcaa ttccccaaac 300
 acatgaaatt tgtggggagg ggaaagcccc aaatgagatg atgggtcttt attcatgcct 360
 tttataaata tacattaagt gtttctctgg tgccatgtac taggccaaac attaatgatg 420
 aaaaaagaaa aacgtacaat taattgccac tctcaagatg ctacagtaaa gtctagtaag 480
 tagacaagta ttacaaaaca aaaatataag tgagctcacc tacagcagga tgctccctcc 540
 tccatccctc tcgtacccat cctctcttga cccagcctgc tttattttaa tagagactga 600
 gcatggcaag tcagtaccat cccgtctctc cctatcccc tctcatctt tgacagcagc 660
 ccagtactcc acataagcca ttaaaacagt acgcctacct agttagtaga tgaacctatg 720
 tttgtgaaat gaggaataac aagaggcatt gagcctccag cttaacacaa agcaccacac 780
 ttacacttag gagatttcaa ctttaactta ccgctctgac caaaaaaaaa aaaaaaaaaa 840
 aaaaa 845

<210> 136
 <211> 1526
 <212> DNA
 <213> Homo sapiens

<400> 136
 aattcggcac gagcgaaagc ccacagttat ggaaagaatt actgtctaga tggctctgac 60

0950032.091204

095005660-09160-28005660

aacgtgtttg	gggtgagtgg	gagtgagggg	caatgttact	ttttctccct	gtagtgttga	120
gtccattatg	agctgctgct	ttttcttctc	atcttgtcat	cttctgggga	tggttgaagg	180
ctgagttcca	acagaattca	caaaggggaat	aaaacaggat	tgagattttg	aggtgtgcac	240
aaggtggtaa	gataaagggc	atatgagctt	caaaactaat	gctgttgcat	acatgaagcc	300
ttttgttttt	tgaggagcta	tttttgttat	tcttgtaacg	ctccacctta	catgccacat	360
ctgtgtgagt	caacagggat	caggtttggt	caccacacat	gtctgaagct	gggcagcgtc	420
tgctctgtgt	tctgtgtgga	atggagaaaa	aaacgcctgc	cctgctgcct	tccatgttca	480
taggcccagc	ccaagagagt	gacacacagt	gctggccctg	agacatttcc	acaaagtggg	540
caactctgcc	ttgcatccta	aaactttttg	ggcatctatt	ttgaaaacta	taggagcctt	600
tggaaggcct	cttatgtttg	gaggggaagg	gtgttgagat	tgaccaccatc	cttcaagctg	660
agactcctgg	tgagcctttg	ccaccatgaa	aaccacatag	ctgaccaggg	ctgtgcttga	720
ggtacagagg	acacacatcg	tagacaggcc	tgtgtcatgt	ttccttacag	tcgtttttta	780
cagagaaaag	gggcattggg	ttttcactgc	tttctcaaca	gttcctgtga	ataaatgaaa	840
catttcggag	ctccctgaga	gcaagagcct	tcaacttctc	ttgcgggtgcc	gggaccatgt	900
gttgggtgaag	ctgggtgctgt	ggggggccact	cactcgaatg	acacctggag	gcctgttctc	960
cccttaccac	tcccttcccc	agcccgaatt	cttggcctcc	tgcccaacca	gacacctcaa	1020
actctgtcag	tgccctggca	ttctggcaga	gaatcctcac	cagttctcac	caaccttccc	1080
cccaggcaag	ggcagctgcc	agcatgggtg	tctgccagga	caggtttccc	tgaaggaagc	1140
tgctcacact	gagatgagcc	tctcagggca	ggacctcttc	ccaagccctg	cacaccacc	1200
cctgcagccc	ttttggctcc	ccttttccct	gtgcctcagc	actccttccc	tggttgacaga	1260
taacgaacta	aggttgcccta	aagggcagat	ctgccttctc	catgtcttcg	tcctggcaaa	1320
cagggtcgtc	ttaaaattat	gcgctaattc	tgtatgggag	cactcaaaag	gcattactta	1380
gagattgaaa	tttcaaacta	tctctagttt	ttcaatggaa	atataatcagc	tagggaaaaa	1440
ccatcaagct	cattattatt	ttttgatctt	cagttgtatt	tttgtgaata	ttttaataca	1500
tctttttcaa	tttcttaaaa	aaaaaa				1526

<210> 137

<211> 941

<212> DNA

<213> Homo sapiens

<400> 137

cctctggaga	gtragcgcac	tgctccattt	twagtttatg	tccccctctc	tacttctrac	60
ctgtataatt	ggaaggctca	taatcccccc	ttctctgaaa	agccccagdt	cttgacttca	120
ctgatggagt	ccgtgctctg	gactcactgg	cccaccagga	atgactgtca	gcaaytcctt	180
ttaacgcttt	tcacctctga	agagagggac	cgtatccgaa	gagaggccag	aaagtatttt	240
ctcacatcag	ccggtagacc	agaggaggaa	gcccaggacc	tccttgagga	ggcttttccc	300
tctaccgggc	ctgattggga	tccaaattcc	tcagggtggga	agacagcttt	ggatgatttt	360
caccagtatc	tccttgccgg	tatcaaggga	gccactggaa	aacccatgaa	tctgtccaag	420
acaactgaag	ttgtccaggg	gcctgatgag	tcaccaggag	cgtttctaga	atgcctccca	480
gaggcccatc	ggacttacac	cccttttgac	cccgcggctc	ccgagaatag	ctgtgctatt	540
gatttggcat	ttatgactca	ggcagccctc	gatattaaaa	gaaaattaca	aaagctggaa	600
ggatttgcgt	gaatgaacac	cagccaactt	cttagaaaata	gccagaaaag	tttatgacaa	660
tcgagagttt	gaaaagcaag	aacaggcgac	ccaggtagct	gaaagaactg	ctgacaaagc	720
atcaaaaaga	caggcaaaaa	tcttagtagc	caccatccag	gggggcaaga	agaaagggcc	780
cccatcacaa	aacactggcc	aggggacccc	gggtcccccac	cagaaaggcc	aaaaaggtga	840
gtgggctccc	ctacaaagaa	accagtgcac	gtattgcaaa	cagattggac	actggaaaaa	900
gaaatgccca	ttaaaaccag	aagaaaaaaa	aaaaaaaaaa	a		941

<210> 138

<211> 867

<212> DNA

<213> Homo sapiens

<400> 138

ggcacgagcc	acagtccggc	ctggtagccc	tcctgacttc	atcctcaagg	tggtaataga	60
caaacatcct	gtccgttttt	ttgtacataa	gaggcccccac	gtggatttct	tcctggaagt	120
ggtgagccag	tggtacgagc	tggtgggtgt	tacagcaagc	atggagatct	atggctctgc	180
tgtggcagat	aaactggaca	atagcagaag	cattcttaag	aggagatatt	acagacagca	240
ctgcactttg	gagttgggca	gctacatcaa	ggacctctct	gtgtgtccaca	gtgacctctc	300
cagcattgtg	atcctggata	actccccagg	ggcttacagg	agccatccag	acaatgccat	360

ccccatcaaa	tccctggttca	gtgacccag	cgacacagcc	cttctcaacc	tgtcccaat	420
gctggatgcc	ctcaggttca	ccgctgatgt	tcgttccgtg	ctgagccgaa	accttcacca	480
acatcggtc	tgactgggac	acaggcgga	gcctaggaga	gccgaatcag	tgtttgtgaa	540
gaggcaggac	tgccagagt	gacagacata	cggatgatcca	ggaggctcaa	agagaagcca	600
agtcagcttt	gttgtgattt	gatttttttt	aaaaaactct	tgtacaaaac	tgatctaatt	660
cttcaactct	gtcccaagg	ctgggctgtg	ggtgggatac	tgggattttg	ggccactgga	720
ttttccctaa	atttgtcccc	cctttactct	ccctctattt	ttctctcctt	agactccctc	780
agacctgtaa	ccagctttgt	gtcttttttc	cttttctctc	ttttaaacca	tgcattataa	840
ctttgaaacc	aaaaaaaaaa	aaaaaaa				867

<210> 139
 <211> 2000
 <212> DNA
 <213> Homo sapiens

<400> 139						
cccacctagg	gcacgetgcc	acgccgccgt	tacctggtcc	aagtgcccg	gaggctccgc	60
ctgtcggtt	cgctctgcag	ctgcatctct	gatctgtcct	gcaggctcag	gctctgacac	120
ctccattctc	tgtccccaag	cgccatgaga	ggccttcttt	gctggcccg	gtwgtgtctc	180
cttcttcarc	cctgggaaac	ccagctccag	ttgacaggtc	ccagggtgtca	cactsggmcc	240
ctggatctgg	tgtycgtgat	tgacagctcc	cgcagcgtgc	gccctttcga	gttcgagacc	300
atgcggcagt	tcctcatggg	cctcctccga	ggcctgaacg	tgggtcccaa	cgccacgcgc	360
gttggcgtga	tccagtattc	gagtcaagt	cagagcgtct	tcctctctcc	cgcgttctct	420
cgccgcgagg	acatggagcg	cgccatccgc	gacctggtgc	ctctggcgca	aggcaccatg	480
acgggactgg	caatccagta	cgccatgaac	gtggccttca	gtgtggccga	kkkcgcgcga	540
cgcctagagg	agcgcgtgcc	gcgtgtcgct	gtcatcgtga	cagacgggcg	kycccaggac	600
cgcgtggccg	argtggcgcc	acaggcgccg	gcccgcggca	ttgaaattta	cgcgttgggg	660
gtgcarcgcg	cggacgtggg	ctccctgcgc	gccatggcat	cgcccccgct	agacgagcac	720
gtcttcctcg	tagagtcctt	cgacctcatc	caggagtctg	gcctgcagtt	ccagagccgg	780
ctgtswggtc	cgggaccttt	gcaatggcgt	ggaccatggc	tgtgagttcc	agtgtgtgag	840
cgagggcctc	tcctaccgct	gcctgtgccc	cgaggggcg	caacttcagg	cagatggcaa	900
gagctgcaac	cgggtgccgg	aaggccacgt	ggacctgtgt	ctgctggttg	atggctccaa	960
gagcgtgcgt	ccacaaaact	tcgagctagt	gaagcgcttc	gtgaaccaga	ttgtggactt	1020
cctagatgtg	tccccgagg	gcacgcgggt	ggggctgggt	cagttctcga	gccgcgtgcg	1080
caccgagttc	cctctgggtc	gctacggcac	cgcagccgag	gtgaagcagg	cggctcctggc	1140
cgtggagtag	atggaacgcg	gcaccatgac	agggtctggc	ttgcggcaca	tgggtggagca	1200
cagcttctcc	gaggcgccag	gtgcacggcc	ccgtgccctt	aacgtgcctc	gtgttggmct	1260
ggtcttcacg	gatggccgct	cccaggatga	catctcggtg	tgggcagcgc	gcgccaagga	1320
ggaaggcatc	gtcatgtacg	ccktgggcgt	gggcaaggcg	gtggaggcg	agctgcgcga	1380
gatcgctctg	gagccagcgg	aactgcacgt	gtcctatgcc	ccggacttcg	gcaccatgac	1440
gcacctgctg	gagaacctca	gaagcagcat	ctgtccagag	gagggcacat	gcgcagggac	1500
agagcttcgg	agccccatgc	aatgcgaaag	cctcgtggag	ttccagggcc	gcacgctggg	1560
ggcgctcgag	agcctgacgc	tgaacctggc	ccagctgacg	gcgcgcctgg	aggatctgga	1620
gaaccagctg	gccaaccaga	agtgagggtg	acggacggcc	cagaccggcg	ctggggcgcg	1680
gcaccacgga	cgggtgccct	tgcgcgccat	cgggtgcgcc	gggccaggca	gaacctgggc	1740
ccgtccggct	tgggctgtcg	gggcggaggc	gctggcgggc	ttccggcatt	gagctgagtt	1800
ggcctcgccc	ggaccattag	gcggtactgc	gcgtcagggg	gatagcgggt	ggtgaggga	1860
ggggcacgtg	ctagaccggc	acgccctcgc	cgcgtgtgcg	ctcagttctt	tgttggtatt	1920
cttggtttgtg	ttcttaaaaa	aataaaaaaa	actgatttcc	aaaaaaaaaa	aaaaaaaaaa	1980
aaaaaaaaaa	aaactcgtag					2000

<210> 140
 <211> 1526
 <212> DNA
 <213> Homo sapiens

<400> 140						
ggcacgagca	gggggttgacc	aggacagtgc	cccatctcag	ctggtgattg	ggaacagaga	60
ctcccttggt	ctcctgcaca	ccctggctca	tggctcttac	ttggtgtgtg	gaggaaggaa	120
aaaagaagac	cttcaccatc	acctctcccc	attcatttat	tcacagcact	taccacctc	180
tacagtgate	cccttggaag	atgagctcca	tgagggcagg	gattgtgtgt	atcttgata	240

095003-09101

0950087-091001

tcttcatatg	ctcagtggtt	gcacaatgtc	tggtgcacag	caggggtttca	atgtatgaat	300
gtgtgggata	gtggcctggg	agggcaaggt	tacacagcaa	gtccaggaca	gagcctaact	360
ctggagcctc	agactatatt	ctgccagtc	aagcaaggga	atcctgattt	cggcctgaga	420
gatgcatctt	ctagcaaagt	caacatcggt	atggctcctg	agctttcctt	ctcagagggg	480
tgggcttcct	acttccccct	cccagactcc	cagtctgcaa	ggccaagatc	catttccagg	540
agaaaatcaa	tatttgatgt	tcccttcctt	ccccagcatt	ggttcagagc	tctggaaatc	600
tcttgccctc	cttacaccac	gcagatagga	aatctctcct	ttggctttta	ccttctgggc	660
ccaggccacc	cactgctgcc	gtggatttta	gccatattat	ttctgctgc	tctgagtgc	720
aacagcacac	tcagcactag	acacaaacat	gcaaagacgc	agctcttgcc	tgccccaag	780
gcttgctggg	taagttaaac	agactgtaaa	atgcagactt	caaatatgcc	agaggcaag	840
gcatttaaaa	ttctcagcgg	gggctggaaa	gagaacgctt	ttaaagtctt	ttcatttctc	900
cctcttcctt	tgccttcagc	atcgagctgc	ctgtgagttg	tctgacctct	tctgtctatg	960
accatttaag	gatgactggt	ccttttgtga	gcaggcaaa	gctttgagat	gttggtctgt	1020
aatgtggaca	gctcttccca	ggctgcctga	aagagcggag	gcagctaaac	ttggcaacaa	1080
atatttccaa	gcctgctttc	cattccatca	tgcagaatgg	tggtattaaa	ttgatgatcc	1140
aggatctcaa	accagcagag	ctctgtcctt	tgggagaaac	ataatccata	tgacagggtt	1200
caccagggct	atctctgaat	accagaaacc	agtccttagg	acagtgtaga	tcagagagca	1260
ggtagctggg	gtgctttggg	atcagaagcc	acctgggcca	gagttttgca	ggtaaacactc	1320
tgcagtggac	atgcctgggt	caacctgggt	caccgagtc	atgctgtgtt	cactttgggtg	1380
tccttttctc	ctgacaaaga	cttaacctgg	tgccatatct	ctcctaagca	atgtgaggag	1440
gatcacctta	acctgggggg	tcaaggctgc	agttagccat	gatcacacca	ctgcactcca	1500
gcctggacag	agttagacag	tatctc				1526

<210> 141

<211> 1887

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1882)

<223> n equals a,t,g, or c

<400> 141

gttcatctta	gtcaatccta	tgccacctct	tcttctctca	gtccctcac	ctgatgggtc	60
cgacacttca	tcatccacca	cctcctggag	ggggtaccct	gaggtgctcc	gctgggggct	120
ccgctcttcc	tggggctgcg	gttgatggct	catcatgata	tttcccaaaa	tctgtcccat	180
ctcaccaaac	ctagtctctg	ttctgtcctt	ggtcttcttc	tggacactgc	tgggatccag	240
aagagtgtgt	tatcaattct	cgaggtcggg	agaagtcagg	agtggagaac	agctctgaga	300
agttactgtt	gtccaactga	actcccaggt	gccgacagag	tccggctcct	ccaatcagga	360
aggtcggaat	ctctgatgtc	atcgctcatg	ccaacctggc	aaccagtttg	aaaaaaaaa	420
catgtaactg	ccaggctgat	ctcttctcct	ggagatcctg	ggtgaatggg	atctcctgcc	480
actgtcccaa	cctcagacca	ytgtccaaaa	gcactctcag	ggwctccrca	tccctctrtt	540
ccctgtccca	gcagaggtcg	tgtcctctcc	actcaaagcy	tgaagcrtgt	tggggctctcy	600
tcttctctgt	acatgcccgt	ttcagagtc	agtctggtgg	gagagggatc	aggatgggaa	660
agaaaagtag	ggtaagcaga	aacgatgaaa	ccttacaaga	gtgagattat	catgtacaag	720
agatcccagg	aacattgact	tgatgaaaaa	gtcacatcag	agcactcaat	ttggcagagg	780
ttttctgccc	agtgtctact	gacattcact	gtccgagatt	ctgtactggg	ggtacacgcg	840
tcctctgccc	taaggcatct	ttgagtccaa	gagatatatt	gaggactgga	aatcatagga	900
aactgcccc	gagttcacac	atatttccaa	tggtgtcccc	aatttcaggg	agtccacgga	960
tcacctaaag	ccagccccct	cagtttggct	aagaaactct	atatatcaag	ttttgtatca	1020
tatgtattgc	tcttaactca	gaaaattcca	ccatttatag	cagtggttta	tttatttata	1080
ccattgaagg	aaatggttta	tttatgaatc	tatattatgg	atattctata	agatactggg	1140
tgtacaaaaa	gactaagtcg	aaaaatctca	gctgtgcaca	gtggctcatg	yttgtaaycc	1200
catctctttg	ggtgscaca	ggaggaagac	tgcctgaggc	cagcagttca	agaccagtat	1260
aggcaacata	gcaagagccc	atctctaaaa	caaaacaaaa	caaaacaaaa	caaaatttagc	1320
caggtgtcgt	ggctggcacc	tgtgttccaa	caacttgaga	gactgagggtg	gcaggaggat	1380
tgcttgagcc	taggagttag	gggctgcagt	gagctgtgat	cgtgacaccg	cactccagtc	1440
tgggcaacac	agcaagrcct	tgtgtcaaaa	aaattttttt	aattaaatat	aaaagagttt	1500
catgacattc	agagaccatc	caaagaacct	gtgggttccg	gccaggcaca	gtgctcacgc	1560
ctgtaatccc	agcgcttttg	gaggccatag	caggtggatc	gcttgagggtc	aggagtttaa	1620

gagcagcctg	gccaacatgg	tgaaacccca	tctcttctaa	aaatacaaaa	aattagtcag	1680
gcatgggtgg	gggtgcctgt	aatcccagcc	actcaggagg	cggggacagc	agaatggctt	1740
aaacttggga	ggcggagggt	gcagtgaagc	aagggtcacac	cattgcactc	cagcctgggc	1800
aacaagagca	aaactacatc	tcaaaaaaaa	aaaaaaaaaa	ctcgaggggg	ggcccgggtac	1860
ccaattcgcc	ctatgggtgag	tngaattg				1887

<210> 142

<211> 1887

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1882)

<223> n equals a,t,g, or c

<400> 142

gttcattctta	gtcaatccta	tgccacctct	tcttctctca	gtccctctac	ctgatgggtcc	60
cgacacttca	tcatccacca	cctcctggag	ggggtaccct	gaggtgctcc	gctgggggct	120
ccgctcttcc	tggggctgcg	gttgatggct	catcatgatc	tttcccaaaa	tctgtcccat	180
ctcaccaaac	ctagtctctg	ttctgtcctt	ggctctcttc	tggacactgc	tgggatccag	240
aagagtgtgt	tatcaattct	cgaggctggg	agaagtcagg	agtggagaac	agctctgaga	300
agttactgtt	gtccaactga	actcccaggt	gccgacagag	tccggctcct	ccaatcagga	360
aggtcggaat	ctctgatgtc	atcgctcatg	ccaacctggc	aaccagtttg	aaaaaaaaaca	420
catgtaactg	ccaggctgat	ctcttgtcct	ggagatcctg	ggtgaatggt	atctcctgcc	480
actgtcccaa	cctcagacca	ytgtccaaaa	gcatcttcag	ggwctccrca	tccctctrtt	540
ccctgtccca	gcagaggtgt	tgctctctcc	actcaaagcy	tgaagcrtgt	tgggggtctcy	600
tcttctctgt	acatgcccg	ttcagagctc	agtctgggtg	gagagggatc	aggatgggaa	660
agaaaagtag	ggtaagcaga	aacgatgaaa	ccttacaaga	gtgagattat	catgtacaag	720
agatcccagg	aacattgact	tgatgaaaaa	gtcacatcag	agcactcaat	ttggcagagg	780
ttttctgccc	agtgtctact	gacattcact	gtccgagatt	ctgtactggg	ggtacacgcg	840
tcctctgccc	taaggcatct	ttgagtccaa	gagatatttt	gaggactgga	aatcatagga	900
aactgcccc	gagttcacac	atattttcaa	tggtgtcccc	aatttcaggg	agtccacgga	960
tcacctaaag	ccagccccct	cagtttgggt	aagaaactct	atatatcaag	ttttgtatca	1020
tatgtattgc	tcttaactca	gaaaattcca	ccatttatag	cagtggttta	tttatttata	1080
ccattgaagg	aaatggttta	tttatgaatc	tatattatgg	atattctata	agatactggg	1140
tgtacaaaaa	gactaagtcg	aaaaatctca	gctgtgcaca	gtggctcatg	yttgtaaycc	1200
catctctttg	ggtgscaca	ggaggaagac	tgcttgaggc	cagcagttca	agaccagtat	1260
aggcaacata	gcaagagccc	atctctaaaa	caaaacaaaa	caaaacaaaa	caaaattagc	1320
caggtgtcgt	ggctggcacc	tgtgttccaa	caacttgaga	gactgaggtg	gcaggaggat	1380
tgcttgagcc	taggagttag	gggctgcagt	gagctgtgat	cgtgacaccg	cactccagtc	1440
tgggcaacac	agcaagrcct	tgtgtcaaaa	aaattttttt	aattaaatat	aaaagagttt	1500
catgacattc	agagaccatc	caaagaacct	gtgggttccg	gccaggcaca	gtgctcacgc	1560
ctgtaattcc	agcgctttgg	gaggccatag	caggtggatc	gcttgagggtc	aggagtttaa	1620
gagcagcctg	gccaacatgg	tgaaacccca	tctcttctaa	aaatacaaaa	aattagtcag	1680
gcatgggtgg	gggtgcctgt	aatcccagcc	actcaggagg	cggggacagc	agaatggctt	1740
aaacttggga	ggcggagggt	gcagtgaagc	aagggtcacac	cattgcactc	cagcctgggc	1800
aacaagagca	aaactacatc	tcaaaaaaaa	aaaaaaaaaa	ctcgaggggg	ggcccgggtac	1860
ccaattcgcc	ctatgggtgag	tngaattg				1887

<210> 143

<211> 1995

<212> DNA

<213> Homo sapiens

<400> 143

gaattcggca	cgagtcactc	tggacttttg	gattgttttt	cacattcagt	gttataatat	60
ttgattatgc	tgattgggtt	tggtgggtac	tgatgcgaat	taataaaaaa	ttttcatttc	120
catgtttatt	ttgtaatctc	ttccacattg	taggctatgt	ttaccatacg	tagcagaatg	180
tgtttacatt	tcttggttct	agtcattttg	attcttcctg	agtgtgagag	tgtgtgtgtg	240
tgtgtgtgtg	tctgtgtgtg	cctttggcat	ttaggaaggg	ttgtatagct	catgttaaat	300

055005500

09550082-091201

attgcactaa	aaatgttttt	gatgggttttc	ctccctttga	actagacaca	cttctaatat	360
ttggtttata	gttttaaatt	ataactttca	gcatcaaata	tttccataca	acagtcaatt	420
acatgatgtg	ttttcttttt	ytacacctct	ttacctgcca	cttctcataa	tagtatttga	480
acctaaacat	ataccgggtga	cattctgtga	ttatcatctt	gcccctacct	tggttttttg	540
tttagatcca	caatgaaata	tattaacgct	catgagctat	tcaaaagtga	atgtcacagt	600
catcacttgc	tgagtgggtac	tcacacctaa	cagagtcctc	atgagggaat	caggtctcgc	660
tgagtttagc	atgtttaata	atcttttctc	acgggtctcg	tacatggatc	gcattactag	720
atataaggtg	cttgcccaaa	atgatttttc	tggagttttt	aggagayatt	gtcttccttg	780
ggggacatac	atgggtgatg	ttctcattgt	gggattckat	tttgttctac	caggacctct	840
aattttctgcc	agttacttca	ytcatattgt	ctcttcacca	tgagtctcca	gaggatactt	900
ccatgggtccg	tgccctccca	tctcccagca	attctgcatt	tccaagattg	gcacctctgg	960
tcctctgcac	ggtgaagccc	cttcctttca	attccccagt	agccagtgc	ctaataccacc	1020
aggtctcagg	catgatctat	gtttctccac	actcgctttc	tgaggakagt	tttgccctggg	1080
ttctatcatg	aacaggccct	ccctgctgtc	ctggcctcta	tttgcatagt	gtttcctgct	1140
ccctctgccg	tcgtgtggct	cccagacctg	gctaaagaaa	atcacctgag	ggccacagtg	1200
ttccctagcc	ctgggtgtta	gggcaggatt	atgggtgaga	tttttgagtc	tctaagttga	1260
cccctacrgc	tctgaagtgt	atggtgagaa	attcagctgt	tatcatccta	ggtggacttg	1320
ctccctccta	tcctctact	tcaaatagcag	aacttcaatc	gtttacaaaa	gaagactgaa	1380
tcgtataata	gaacacaccc	ttattcattg	gctggcttca	ccaatctcat	ggctgaactt	1440
gtaaaaatac	aatcttagcc	acatacctat	gaaatgtata	tgtgtgtrta	tatatataca	1500
tgaatttgct	tctgagatta	tggaggctga	aattcccaag	atggaaggaa	agctggatac	1560
ccaggaaagc	atltgtttcc	cattaggcct	cttaattctc	tcctggccct	tgattgattg	1620
catgaggccc	accctatta	aggagggcaa	tctgcttcac	ttagtctgcc	catcccaatg	1680
ttaactcgtat	ctgaaagact	ctctggaaca	caaccagaat	catgtttggc	caaatgtcct	1740
ggcaccctgg	tgctcggta	cagtgacaag	tacaagtaac	tatcacacat	gccctttgtc	1800
atattggtga	tttccactgt	ttttctccca	aactgcagct	tatatattgt	ctcttartac	1860
tggtgagcaa	aaacttttaa	tttttataaa	gtcgaattta	tcaatgtttt	ctttaatggg	1920
ttgtgtttat	tgataataaa	gaacactttr	cctaaaaaaa	aaaaaaaaaa	actgcgaggg	1980
gggcccggta	cccaa					1995

<210> 144

<211> 2908

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> n equals a,t,g, or c

<400> 144

tnntaggtga	cactatagaa	ggtagcgcctg	caggtaccgg	atccggaatt	cccgggtcga	60
cccacgcgtc	cgcccasgmg	tcmggccgct	ggcaggagac	agcatgtcac	ccaggactct	120
gccggtgcag	aatatgaaca	atgccatgtt	cttgacagaaa	acgcttagcc	tgagtttcat	180
aggaggtaat	caccagacaa	ctgcagaatg	trgaacactg	agcaggacar	ctgacctgtc	240
tccttcacat	agtccatrtc	accacaaaatc	acacaacaaa	aaggagarga	gatatttttg	300
gttcaaaaaa	agtaaaaaaga	taatgtagct	gcattttcttt	agttattttg	arccccaaat	360
atttctcat	ctttttgttg	ttgtcatkga	tgggtggtgac	atggacttgt	ttatagagga	420
caggtcagct	gtctggctca	rtgatctaca	ttctgaagtt	gtctgaaaat	gtcttcatga	480
ttaaattcag	cctaaacggt	ttgccgggaa	cactgcagag	acaatgctgt	gagtttccaa	540
cctcagccca	tctgcgggca	gagaaggctc	agtttgcca	tcaccattat	gatatcagga	600
ctggttactt	ggttaaggag	gggtctagga	gatctgtccc	ttttagagac	accttactta	660
yaatgaagta	cttgggaaag	yggttttcaa	gagtataaat	atcctgtatt	ctaatagatca	720
tcctctaaac	attttatcat	ttattaatcc	tcctgcctg	tgtctattat	tatattcata	780
tctctacrc	gcaaatttkg	ggctcgaatt	ttactgtgc	ctttgttttt	actagtgtct	840
gctgttgcaa	aaagaagaaa	acattctctg	cctgagtttt	aattttttgtc	caaagttaat	900
tttaatctat	acaattaaaa	cctttttgct	atcactctgg	actttttggat	tgtttttcac	960
attcagtggt	ataatatttg	attatgctga	ttgggttttg	tgggtactga	tgcaaatata	1020
taaaaacwtt	tcattttccat	gtttattttg	taactctctc	cacattgtag	gctatgttta	1080
ccatcgttag	cagaatgtgt	ttacatttct	tggttctagt	catttgtatt	cttcgtgagt	1140
gtgagagtgt	gtgtgtgtgt	gtgtgtgtct	gtgtgtgcct	ttggcattta	ggaaggggtg	1200

tatagctcat gttaaatatt gcactaaaaa tgtttttgat ggtttttcctc cctttgaact 1260
 agacacactt ctaatatattg tttatagttt taaattataa ctttcagcat caaatatttc 1320
 catacaacag tcaattacat gatgtgtttt cttttttctac ctcccttacc tgccacttct 1380
 cataatagta tttgaaccta aacatatacc ggtgacattc tgtgattatc atcttgcccc 1440
 taccttgggtt tttgggttag atccacaatg aaatatatta acgctcatga gctattcaaa 1500
 agtgaatgtc acagtcacat cttgctgagt ggtactcatc cttaacagag tcctcatgag 1560
 ggaatcagggt ctcgctgagt ttagcatgtt taataatctt ttctcacggg ctcgatacat 1620
 ggatcgcat actagatata aggtgcttgc ccaaaatgat ttttctggag tttttaggag 1680
 ayattgtctt ccttggggga catacatggt gtatgttctc attgtgggat tckattttgt 1740
 tctaccagga cctctaattt ctgccagtta cttcaytcat ttgttctctt caccatgagt 1800
 ctccagagga tacttccatg gtccgtgcct ccccatctcc cagcaattct gcatttccaa 1860
 gattggcacc tctggtcctc tgcacgggtga agccccctcc tttcaattcc ccagtagcca 1920
 gtgctcta at ccaccaggte tcaggcatga tctatgttcc tccacactcg ctttctgagg 1980
 akagttttgc ctgggttcta tcatgaacag gccctccctg ctgtcctggc ctctatttgc 2040
 atagtgttct ctgctccctc tgccgtcgtg tggctccag acctggctaa agaaaatcac 2100
 ctgagggccca cagtgttccc tagccctggg gtttagggca ggattatggg tgagattttt 2160
 gagtctctaa gttgaccctt acrgctctga agtgtatgtt gagaaattca gctgttatca 2220
 tcctaggtgg acttgctccc tcctatcctc ctacttcaaa tgcagaactt caatcgttta 2280
 caaaagaaga ctgaatcgta taatagaaca cacccttatt cattggctgg cttcaccaat 2340
 ctcatggctg aacttgtaaa aatacaatct tagccacata cctatgaaat gtatatgtgt 2400
 gtrtatatat atacatgaat ttgcttctga gattatggag gctgaaattc ccaagatgga 2460
 aggaaagctg gatacccagg aaagcatttg tttcccatga ggccctctaa ttctctcctg 2520
 gcccttgatt gattgcatga ggcccacccc tattaaggag ggcaatctgc ttcacttagt 2580
 ctgcccattc caatgttaat cgtatctgaa agactctctg gaacacaacc agaatcatgt 2640
 ttggccaaat gtccctggcac cctgggtgct ggccacagtg acaagtacaa gtaactatca 2700
 cacatgccct ttgtcatatt ggtgatttcc actgttttcc tcccaaactg cagcttatat 2760
 ttgttctctt artactgttg agcaaaaact taatttttat aaagtcgaat ttatcaatgt 2820
 tttctttaat ggtttgtgtt tattgataat aaagaacact ttrcctaaaa aaaaaaaaaa 2880
 aaaactgcga ggggggcccg gtacccaa 2908

<210> 145

<211> 4907

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2797)

<223> n equals a,t,g, or c

<400> 145

ttcgactcctc tcagggttatt ttgaactgcc tgacttaggc cagccctaca gcagtgtgt 60
 ttactcattg gaggaacagt accttggtt ggctcttgac gtggacagaa ytaaaaagga 120
 csaagaagrg gaagaagayc aarrrccacc atgccccagg ctgagcaggg agctgtgtga 180
 ggtagtagag cctgaagtct tgcaggactc actggataga tgttattcaa ctccctccag 240
 ttgtcttgaa cagcctgact cctgccagcc ctatggaagt tccttttatg cattggagga 300
 aaaacatgtt ggcttttctc ttgacgtggg agaaattgaa aagaagggga aggggaagaa 360
 aagaagggga agaagatcaa agaaggaaag aagaagggga agaaaagaag gggaagaaga 420
 tcaaaaccca ccatgcccc ggctcagcag ggagctgctg gatgagaaag ggcctgaagt 480
 cttgcaggac tcactggata gatgttattc aactccttca ggttgtcttg aactgactga 540
 ctcatgccag ccctacagaa gtgcctttta yrtattggag caacagcgtg ttggcttggc 600
 tgttgacatg gatgaaattg aaaagtacca agaagtggaa gaagaccaag acccatcatg 660
 ccccaggctc agcagggagc tgctggatga gaaagagcct gaagtcttgc aggactcact 720
 ggatagatgt tattcgactc cttcagggtta tcttgaactg cctgacttag gccagcccta 780
 cagcagtgtc gtttactcat tggaggaaca gtaccttggc ttggctcttg acgtggacag 840
 aattaaaaag gaccaagaag aggaagaaga ccaaggccca ccatgcccc ggctcagcag 900
 ggagctgctg gaggtagtag agcctgaagt cttgcaggac tcaactggata gatgttattc 960
 aactccttcc agttgtcttg aacagcctga ctccctgccag ccctatggaa gttcctttta 1020
 tgcattggag gaaaaacatg ttggcttttc tcttgacgtg ggagaaattg aaaagaaggg 1080
 gaagggaag aaaaagaagg gaagaagatc aaagaagraa agaagaaggg gaagaaaaga 1140
 aggggaagaa gatcaaaacc caccatgccc caggctcaac ggcgtgctga tggaaagtga 1200

0950082-091201

agagcctgaa	gtcttacag	actcactgga	tagatgttat	tcgactccgt	caatgtactt	1260
tgaactacct	gactcattcc	agcactacag	aagtgtgttt	tactcatttg	aggaacagca	1320
catcagcttc	gcccttkacg	tggacaatag	gttttttact	ttgacgggtga	caagtctcca	1380
cctggststtc	cagatggggag	tcatattccc	acaataagca	gcccttasta	akccgagaga	1440
tgtcattcct	gcaggcagga	cctataggca	cgtgaagatt	tgaatgaaas	tayagttcca	1500
tttgggaagcc	cagacatagg	atgggctcagt	gggcatggct	ctattcctat	tctcaracca	1560
tgccatgggc	aacctgtgct	cagtctgaag	acaatggacc	cacgttaggt	gtgacacggt	1620
cacataactg	tgcagcacat	gccggggagt	atcagtcrga	cattttaatt	tgaaccacgt	1680
atctctgggt	agctacaaaa	ttcctcaggg	atttcatttt	gcaggcatgt	ctctgagcct	1740
ctatacctgc	tcaaggctcak	tgtcatcttt	gtgttttagct	catccaaagg	tgttaccctg	1800
gtttcaatga	acctaacctc	attctttgtg	tcttcagtgt	tggtttgttt	tagctgatecc	1860
atctgtaaca	caggagggat	ccttggtctga	ggattgtatt	tcagaaccac	caactgctct	1920
tgacaattgt	taaccgcgcta	ggctcctttg	gttagagaag	ccacagtcct	tcagcctcca	1980
attgggtgtca	gtacttagga	agaccacagc	tagatggaca	aacagcattg	ggaggcctta	2040
gccttgctcc	tctcaattcc	atcctgtaga	gaacaggagt	caggagccgc	tggcaggaga	2100
cagcatgtca	cccaggactc	tgccgggtga	gaatatgaac	aatgccatgt	tcttgacaga	2160
aacgcttagc	ctgagtttca	taggaggtaa	tcaccagaca	actgcagaat	gtrgaract	2220
gagcaggaca	rtgacctgt	ctccttcaca	tagtccatrt	caccacaaat	cacacaacaa	2280
aaaggagarg	agatatTTTT	ggttcaaaaa	aagtaaaaag	ataatgtagc	tgcattttctt	2340
tagttatttt	garcccaaaa	tatttcctca	tctttttgtt	gttgtcatkg	atgggtgggtga	2400
catggacttg	tttatagagg	acaggctcagc	tgtctggctc	artgatctac	attctgaagt	2460
tgtctgaaaa	tgtcttcatg	attaaattca	gcctaaacgt	tttgccggga	acactgcaga	2520
gacaatgctg	tgagtttcca	acctcagccc	atctgcgggc	agagaagggtc	tagtttgttcc	2580
atcaccatta	tgatatcagg	actggttact	tggttaagga	gggtcttagg	agatctgtcc	2640
cttttagaga	caccttactt	ataatgaagt	acttgggaaa	gygggttttca	agagtataaa	2700
tatcctgtat	tctaattgatc	atcctctaaa	cattttttca	tttattaatc	ctccctgcct	2760
gtgtctatta	ttatatctcat	atctctacrc	tgcaaanntt	gggtctcaat	ttttactgtg	2820
cctttgtttt	tactagtgtc	tgctgttgca	aaaagaagaa	cattctctgc	ctgagtttta	2880
atTTTTgtcc	aaagttaatt	ttaatctata	caattaaaac	cttttgcccta	tcactctgga	2940
cttttggtatt	gttttTyaca	ttcagtggtta	taatatTTga	ttatgctgat	tggttttggt	3000
gggtactgat	gcgaattaat	aaaaacwttt	catttccatg	tttattttgt	aatctcttcc	3060
acattgtagg	ctatgtttac	catacgtagc	agaatgtgtt	tacatttctt	ggttctagtc	3120
atttgtattc	ttcgtgagtg	tgagagtgtg	tgtgtgtgtg	tgtgtgtctg	tgtgtgcctt	3180
tggtcatttag	gaagggttgt	atagctcatg	ttaaatatgt	cactaaaaat	gttttttgatg	3240
gttttccctcc	ctttgaacta	gacacacttc	taatatTTgt	ttatagtttt	aaattataac	3300
tttcagcatc	aaatatTTcc	atacaacagt	caattacatg	atgtgttttc	tttttctacc	3360
tcctttacct	gccactttct	ataatagtat	ttgaacctaa	acataaccg	gtgacattct	3420
gtgattatca	tcttgccctt	accttggttt	ttggtttaga	tccacaatga	aatatattaa	3480
cgctcatgag	ctattcaaaa	gtgaatgtca	cagtcatcac	ttgctgagtg	gtactcatcc	3540
ttaacagagt	cctcatgagg	gaatcagggtc	tcgctgagtt	tagcatgttt	aataatcttt	3600
tctcacggtc	tcgatacatg	gatcgcatta	ctagatataa	ggtgcttgcc	caaaatgatt	3660
tttctggagt	ttttaggaga	yattgtcttc	cttgggggac	atacatgggtg	tatgttctca	3720
ttgtgggatt	ckattttgtt	ctaccaggac	ctctaatttc	tgccagttac	ttcaytcatt	3780
tgttctcttc	accatgagtc	tccagaggat	acttccatgg	tccgtgectc	cccatctccc	3840
agcaattctg	catttccaag	attggcacct	ctggctcctct	gcacggtgaa	gcccccttct	3900
ttcaattccc	cagtagccag	tgtctctaate	caccaggctct	caggcatgat	ctatgtttct	3960
ccacactcgc	tttctgagga	kagttttgcc	tgggttctat	catgaacagg	ccctccctgc	4020
tgtcctggcc	tctatttgca	tagtgtttcc	tgtccctctt	gccgtcgtgt	ggctcccaga	4080
cctggctaaa	gaaaatcacc	tgaggggccac	agtgttccct	agccctgggtg	tttagggcag	4140
gattatgggt	gagatttttg	agtctctaag	ttgaccctca	crgctctgaa	gtgtatgttg	4200
agaaatttcag	ctgttatcat	cctagggtga	cttgcctccct	cctatccctcc	tacttcaaat	4260
gcagaacttc	aatcgtttac	aaaagaagac	tgaatcgtat	aatagaacac	acccttattc	4320
attggctggc	ttcaccaate	tcatggctga	acttgtaaaa	atacaatctt	agccacatac	4380
ctatgaaatg	tatatgtgtg	trtatatata	tacatgaatt	tgcttctgag	attatggagg	4440
ctgaaattcc	caagatggaa	ggaaagctgg	atacccagga	aagcatttgt	ttcccattag	4500
gcctcttaat	tctctcctgg	cccttgattg	attgcatgag	gccacccctt	attaaggagg	4560
gcaatctgct	tcacttagtc	tgcceatccc	aatgttaate	gtatctgaaa	gactctctgg	4620
aacacaacca	gaatcatggt	tgcccaaatg	tcctggcacc	ctggtgctcg	gtcacagtga	4680
caagtacaag	taactatcac	acatgccctt	tgtcatattg	gtgatttcca	ctgtttttct	4740
cccaaactgc	agcttatatt	tgttctctta	rtactgttga	gcaaaaactt	aatttttata	4800
aagtcgaatt	tatcaatggt	ttcttttaattg	gtttgtgttt	attgataata	aagaacactt	4860

trcctaaaaa aaaaaaaaaa aaactgcgag gggggcccg tacccaa

4907

<210> 146

<211> 4102

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1992)

<223> n equals a,t,g, or c

<400> 146

agacagtacc	ttggcttggc	tcttgacgtg	gacagaatta	aaaaggacca	ggaagaggaa	60
gaagaccaag	gcccaccatg	ccccakgctc	agcagggagc	tgctggaggy	agtagagcct	120
gaagtcttgc	aggactcact	ggatagatgt	tattcaactc	cttcagttg	tcttgaacag	180
cctgactcct	gccwgccta	tggaagttcc	ttttatgcat	tgaggaaaa	acatgttggc	240
ttttctcttg	acgtgggaga	aattgaaaag	aaggggaagg	ggaagaaaag	aaggggaaga	300
agatcaaaga	agraaagaag	aaggggaaga	aaagaagggg	aagaagatca	aaaccacca	360
tgccccaggc	tcaacggcgt	gctgatggaa	gtggaagagc	ctgaagtctt	acaggactca	420
ctggatagat	gttattcgac	tccgtcaatg	tactttgaac	tacctgactc	attccagcac	480
tacagaagtg	tgttttactc	atlttgaggaa	cagcacatca	gcttcgccct	tkacgtggac	540
aatagggtttt	ttactttgac	ggtgacaagt	ctccacctgg	tsttccagat	gggagtcata	600
ttcccacaat	aagcagccct	tastaakccg	agagatgtca	ttcctgcagg	caggacctat	660
agggcamgtga	agatttgaat	gaaastayag	ttccattttg	aagcccagac	ataggatggg	720
tcagtgggca	tggtcttatt	cctattctca	raccatgccca	gtggcaacct	gtgctcagtc	780
tgaagacaat	ggaccacagt	taggtgtgac	acgttcacat	aactgtgcag	cacatgccgg	840
gagtgatcag	tcrgacattt	taatttgaac	cacgtatctc	tggttagcta	caaaattcct	900
cagggatttc	atlttgcagg	catgtctctg	agcttctata	cctgctcaag	gtcaktgtca	960
tctttgtgtt	tagctcatcc	aaagggtgta	ccctggtttc	aatgaaccta	acctcattct	1020
ttgtgtcttc	agtgttggct	tgttttagct	gatccatctg	taacacagga	gggatccttg	1080
gctgaggatt	gtatttcaga	accaccaact	gctcttgaca	attgttaacc	cgctaggctc	1140
ctttggttag	agaagccaca	gtccttcagc	ctccaattgg	tgtcagtact	taggaagacc	1200
acagctagat	ggacaacacg	cattgggagg	ccttagccct	gctcctctca	attccatcct	1260
gtagagaaca	ggagtcagga	gccgctggca	ggagacagca	tgtaaccag	gactctgccg	1320
gtgcagaata	tgaacaatgc	catgttcttg	cagaaaacgc	ttagcctgag	tttcatagga	1380
ggtaatcacc	agacaactgc	agaatgtrga	rcactgagca	ggacarctga	cctgtctcct	1440
tcacatagtc	catrtcacca	caaatcacac	aacaaaaagg	agargagata	ttttgggttc	1500
aaaaaaagta	aaaagataat	gtagctgcat	ttcttttagt	atlttgatcc	ccaaatattt	1560
cctcatcttt	ttgttgttgt	catkgatggg	ggtgacatgg	acttgtttat	agaggacagg	1620
tcagctgtct	ggctcartga	tctacattct	gaagtgtgtc	gaaaatgtct	tcatgattaa	1680
attcagccta	aacgttttgc	cgggaacact	gcagagacaa	tgctgtgagt	ttccaacctc	1740
agcccatctg	cgggcagaga	aggtctagtt	tgtccatcac	cattatgata	tcaggatggg	1800
ttacttgggt	aaggagggtg	ctaggagatc	tgtccctttt	agagacacct	tacttataat	1860
gaagtacttg	ggaaagyggg	tttcaagagt	ataaatatcc	tgtattctaa	tgatcatcct	1920
ctaaacattt	tatcatttat	taatcctccc	tgctgtgtgc	tattattata	ttcatacttc	1980
tacrctgcaa	antttgggtc	tcaattttta	ctgtgccttt	gtttttacta	gtgtctgtctg	2040
ttgcaaaaag	aagaacattc	tctgcctgag	ttttaatttt	tgtccaaagt	taattttaat	2100
ctatacaatt	aaaacctttt	gcctatcact	ctggactttt	ggattgtttt	tyacattcag	2160
tgttataata	tttgattatg	ctgatttggg	ttgggtgggta	ctgatgcaaa	ttaataaaaa	2220
cgttttcattt	ccatgtttat	tttgaatctc	cttccacatt	gtaggctatg	tttaccatac	2280
gtagcagaat	gtgtttacat	ttcttgggtc	tagtcaattg	tattcttcgt	gagtgatgaga	2340
gtgtgtgtgt	gtgtgtgtgt	gtctgtgtgt	gcctttggca	tttaggaagg	gttgtatagc	2400
tcatgttaaa	tattgcacta	aaaatgtttt	tgatgggttt	cctccctttg	aactagacac	2460
acttctaata	ttggttttata	gttttaaat	ataactttca	gcatcaaata	tttccataca	2520
acagtcaatt	acatgatgtg	ttttcttttt	ctacctcctt	tacctgccac	ttctcataat	2580
agtatttgaa	cctaacaata	taccgggtgac	attctgtgat	tatcatcttg	cccctacctt	2640
ggtttttggg	ttagatccac	aatgaaatat	attaacgctc	atgagctatt	caaaagtga	2700
tgtcacagtc	atcatttgct	gagtggtact	catccttaac	agagtcctca	tgagggaatc	2760
aggtctcgct	gagtttagca	tgtttaataa	tcttttctca	cggctctgat	acatggatcg	2820
cattactaga	tataagggtgc	ttgccccaaa	tgatttttct	ggagttttta	ggagayattg	2880

0950082-091201

tcttccttgg	gggacataca	tgggtgatgt	tctcattgtg	ggattckatt	ttgttctacc	2940
aggacctcta	atctctgcc	gttacttcay	tcatttgttc	tcttcacccat	gagtctccag	3000
aggatacttc	catgggtccgt	gcctccccc	ctcccagcaa	ttctgcattt	ccaagattgg	3060
cacctctgg	cctctgcacg	gtgaagcccc	ttcctttcaa	ttccccagta	gccagtgtct	3120
taatccacca	gggtctcaggc	atgatctatg	tttctccaca	ctcgctttct	gaggakagtt	3180
ttgcctgggt	tctatcatga	acaggeccct	cctgctgtcc	tggcctctat	ttgcatagt	3240
tttctgtct	cctctgccgt	cgtgtggctc	ccagacctgg	ctaaagaaaa	tcacctgagg	3300
gccacagtgt	tccctagccc	tgggtgttag	ggcaggatta	tgggtgagat	ttttgagtct	3360
ctaagttgac	ccctacrgct	ctgaagtgt	tgttgagaaa	ttcagctgtt	atcatcctag	3420
gtggacttgc	tccctcctat	cctcctactt	caaatgcaga	acttcaatcg	tttacaaaag	3480
aagactgaat	cgtataatag	aacacaccct	tattcattgg	ctggcttcac	caatctcatg	3540
gctgaacttg	taaaaaatata	atcttagcca	catacctatg	aaatgtatat	gtgtgtrtat	3600
atatatacat	gaatttgctt	ctgagattat	ggaggctgaa	attcccaaga	tggaggaaa	3660
gctggatacc	caggaaagca	tttgtttccc	attaggcctc	ttaattctct	cctggccctt	3720
gattgattgc	atgaggccca	cccctattaa	ggagggcaat	ctgcttcact	tagtctgccc	3780
atcccaatgt	taatcgtatc	tgaagactc	tctggaacac	aaccagaatc	atgtttggcc	3840
aaatgtcctg	gcacctgggt	gctcggtcac	agtgacaagt	acaagtaact	atcacacatg	3900
ccctttgtca	tatttggtgat	ttccactgtt	tttctcccaa	actgcagctt	atatttgttc	3960
tcttartact	gttgagcaaa	aacttaattt	ttataaagtc	gaatttatca	atgttttctt	4020
taatgggttg	tgtttattga	taataaagaa	cacttttrct	aaaaaaaaaa	aaaaaaaaact	4080
gcgagggggg	cccgttacc	aa				4102

<210> 147

<211> 3977

<212> DNA

<213> Homo sapiens

<400> 147

gctcgtgccg	ctcgtgccgc	tctgtccgct	ccttcagtt	gtcttgaaca	gcctgactcc	60
tgccagccct	atggaagtcc	cttttatgca	ttggaggaaa	aacatgttgg	cttttctctt	120
gacgtgggag	aaattgaaaa	gaaggggaag	gggaagaaaa	gaaggggaag	aagatcaaa	180
aagraaagaa	gaaggggaag	aaaagaaggg	gaagaagatc	aaaaccacc	atgccccagg	240
ctcaacggcg	tgctgatgga	agtgggaag	cctgaagtct	tacaggactc	actggataga	300
tgttatcgca	ctccgtcaat	gtactttgaa	ctacctgact	cattccagca	ctacagaagt	360
gtgttttact	catttgagga	acagcacatc	agcttcgccc	ttkacgtgga	caataggttt	420
tttactttga	cggtgacaag	tctccacctg	gtsttccaga	tgggagtcac	attcccacaa	480
taagcagccc	ttastaakcc	gagagatgtc	attcctgcag	gcaggacctc	taggcacgtg	540
aagatttgaa	tgaaastaya	gttccatttg	gaagcccaga	cataggatgg	gtcagtgggc	600
atggctctat	tcctattctc	araccatgcc	agtggcaacc	tgtgctcagt	ctgaagacaa	660
tggaccacag	ttaggtgtga	cacgttcaca	taactgtgca	gcacatgccg	ggagtgatca	720
gtcracat	ttaatgtgaa	ccacgtatct	ctgggtagct	acaaaattcc	tcagggattt	780
cattttgcag	gcatgtctct	gagcttctat	acctgtcaa	ggtcaktgtc	atctttgtgt	840
ttagctcatc	caaggtgtgt	accctgggtt	caatgaacct	aacctcattc	tttgtgtctt	900
cagtgttggc	ttgtttttag	tgatccatct	gtaacacagg	agggatcctt	ggctgaggat	960
tgtatttcag	aaccaccaac	tgtctttgac	aattgttaac	ccgctaggct	ccttttggtta	1020
gagaagccac	agtccttcag	cctccaattg	gtgtcagtac	ttaggaagac	cacagctaga	1080
tggacaaaca	gcattgggag	gccttagccc	tgctcctctc	aattccatcc	tgtagagaa	1140
aggagtcagg	agccgctggc	aggagacagc	atgtcaccca	ggactctgcc	ggtgcagaat	1200
atgaacaatg	ccatgttctt	gcagaaaacg	cttagcctga	gtttcatagg	aggtaatcac	1260
cagacaactg	cagaatgtrg	arcactgagc	aggacarctg	acctgtctcc	ttcacatagt	1320
ccatatcacc	acaaatcaca	caacaaaaag	gagargagat	attttgggtt	caaaaaaagt	1380
aaaaagataa	tgtagctgca	tttctttagt	tattttgarc	cccaaataatt	tcctcatctt	1440
tttgttgttg	tcatkgatgg	tgggtgacatg	gacttgttta	tagaggacag	gtcagctgtc	1500
tggctcartg	atctacattc	tgaagtgtgc	tgaaaatgtc	ttcatgatta	aattcagcct	1560
aaacgttttg	ccgggaacac	tgcagagaca	atgctgtgag	tttccaacct	cagcccatct	1620
gcgggcagag	aaggtctagt	ttgtccatca	ccattatgat	atcaggactg	gttacttgg	1680
taaggagggg	tctaggagat	ctgtcccttt	tagagacacc	ttacttayaa	tgaagtactt	1740
gggaaagygg	ttttcaagag	tataaatatc	ctgtattcta	atgatcatcc	tctaaacatt	1800
ttatcattta	ttaatcctcc	ctgcctgtgt	ctattattat	attcatatct	ctacrctgca	1860
aatttkgggt	ctcaattttt	actgtgcctt	tgtttttact	agtgtctgct	gttgcaaaaa	1920
gaagaaaaca	ttctctgcct	gagttttaat	ttttgtccaa	agttaatttt	aatctataca	1980

FOI b7D "23005660"

0950082 091201

attaaaaacct	tttgcctatc	actctggact	tttggattgt	ttttcacatt	cagtgttata	2040
atattttgatt	atgctgattg	gtttttggtg	gtactgatgc	gaattaataa	aaacwtttca	2100
tttccatggt	tatttttgtaa	tctcttccac	attgtaggct	atgtttacca	tacgtagcag	2160
aatgtgttta	cattttcttg	ttctagtcac	ttgtattcct	cgtgagtggt	agagtggtgt	2220
tgtgtgtgtg	tgtgtctgtg	tgtgcctttg	gcatttagga	aggggtgtat	agctcatggt	2280
aaatattgca	ctaaaaatgt	ttttgatggt	tttccctccc	ttgaactaga	cacacttcta	2340
atattgggtt	atagttttta	attataactt	tcagcatcaa	atatttccat	acaacagtca	2400
attacatgat	gtgttttctt	tttctacctc	ctttacctgc	cactttctcat	aatagtattt	2460
gaacctaaac	atataccggt	gacattctgt	gattatcatc	ttgcccctac	cttgggtttt	2520
ggtttagatc	cacaatgaaa	tatattaacg	ctcatgagct	attcaaaaagt	gaatgtcaca	2580
gtcatcactt	gctgagtggt	actcatcctt	aacagagtcc	tcagtgaggga	atcagggtctc	2640
gctgagttta	gcatgtttta	taatcttttc	tcacgggtctc	gatacatgga	tcgcattact	2700
agatataagg	tgcttgccca	aaatgatttt	tctggagttt	ttaggagaya	ttgtcttccct	2760
tgggggacat	acatgggtgta	tgttctcatt	gtgggattck	attttgttct	accaggacct	2820
ctaatttctg	ccagttactt	caytcatttg	ttctcttcac	catgagtctc	cagaggatac	2880
ttccatgggtc	cgtgctctcc	catctcccag	caattctgca	tttccaagat	tggcacctct	2940
ggctctctgc	acgggtgaagc	cccttctctt	caattcccca	gtagccagtg	ctctaatacca	3000
ccaggtctca	ggcatgatct	atgtttctcc	acactcgctt	tctgaggaka	gttttgcctg	3060
ggttctatca	tgaacaggcc	ctccctgctg	tcctggcctc	tatttgcata	gtgttttctg	3120
ctccctctgc	cgctgtgtgg	ctcccagacc	tggctaaaga	aaatcacctg	agggccacag	3180
tgctccctag	ccctgggtgtt	tagggcagga	ttatgggtga	gatttttgag	tctctaagtt	3240
gaccctacr	gctctgaagt	gtatgttgag	aaattcagct	gttatcatcc	taggtggact	3300
tgctccctcc	tatctctcta	cttcaaatgc	agaacttcaa	tcgtttacaa	agaagactg	3360
aatcgtataa	tagaacacac	ccttattcat	tggctggctt	caccaatctc	atggctgaac	3420
ttgtaaaaaat	acaatcttag	ccacatacct	atgaaatgta	tatgtgtgtr	tatatatata	3480
catgaatttg	ctctctgagat	tatggaggct	gaaattccca	agatggaagg	aaagctggat	3540
accagggaaa	gcatttggtt	cccattaggc	ctcttaattc	tctcctggcc	cttgattgat	3600
tgcatgaggc	ccacccttat	taaggagggc	aatctgcttc	acttagtctg	cccatcccaa	3660
tgtaaatcgt	atctgaaaga	ctctctggaa	cacaaccaga	atcatgtttg	gccaaatgtc	3720
ctggcacctt	ggtgctcggt	cacagtgaca	agtacaagta	actatcacac	atgccctttg	3780
tcattattggt	gatttccact	gtttttctcc	caaactgcag	cttatatttg	ttctcttart	3840
actgttgagc	aaaaactttt	aatttttata	aagtgcgaatt	tatcaatggt	ttctttaatg	3900
gtttgtgttt	attgataata	aagaacactt	trcctaaaaa	aaaaaaaaaa	aaactgcgag	3960
ggggggcccg	tacccaa					3977

<210> 148
 <211> 2036
 <212> DNA
 <213> Homo sapiens

<400> 148						
aattcggcac	gaggaagagt	ggtgtctcct	tcagcagggc	gtgcagtggt	ggctcttttt	60
cttctgtgac	cctttataacc	catttttact	tttccccatt	gtggacactc	tgagtccatg	120
ttgttcttcc	cacttgtcct	cctgccatgt	gttttctctt	cttatagtaa	aaggaggaga	180
gcgcagggtt	aaaaagacgg	taactgtgtg	cttctcctcc	catgcagaca	agcagccagc	240
agcagctcct	gagccccacg	ctgtcggatc	gaggaggaag	tcggcaagat	gcagccgacg	300
cagggaaacc	ccagaggaaa	tttgggcagt	ggcgtctgcc	ctcaggtagg	tccatccagg	360
catttctcca	gcgatcgagg	catttttaaag	gtatttactc	tgtttgtgtg	ttttgggtct	420
tgcttttcaa	aatgcaagtc	tgcattctaca	gttgtttaca	gacagcaaca	taatgaaaaa	480
tgtagtcttg	tcaaaaacat	tgtcccccaa	aataacttct	ctaaatatga	cttacattag	540
cccccatatt	ccgggtacat	ttcaggctat	catggttgag	aagccagcac	ctatgaaaaa	600
gacaagattc	agaaagaggg	agaaatttcc	aagggtcttc	tgtgtgcctc	aaggcatgct	660
caaacatggg	caaaagtatt	caactgaaga	gggagtgggc	agatgcaatc	attcagaaaa	720
tgccacgaag	ttctcaaaaa	agggacaggc	ccccgatttc	tctcagcaca	ctttgcagct	780
gagccgggtc	ctggcttttag	gcaagctgct	ttacctccat	acaataacaa	acaacaacaa	840
caaacactta	cgtagtactc	actgtatgcc	agtcactctt	ctaagtgcac	tacttgtgtt	900
ctctcattca	atcctttaat	aaacaatccc	attattttcc	atattttact	gattcagtaa	960
gagaattttc	ttctatgagc	ttcttctcta	taggggtttt	gaaagccagg	ataatcccat	1020
taagagcact	caggaatcga	gggagagcaa	tgtccccac	agcccagtg	ccttgtagat	1080
gtttttttct	atagataact	aagttcatgc	taaagcagga	gctttataat	gctctttaac	1140
tgtgccccaa	cttcagccca	attgaaagga	gaagatgtgt	agcatatgtg	ttccacaaag	1200

cagatgacag	cacagcttac	atcttgagggc	tgacgatgtt	cagtgggtct	tcactgggac	1260
taccaccaag	gaaagtatcc	cctttcatat	ccaggaactt	atctttcaga	gatcagagaa	1320
gatctaggtt	cctcctgatt	caaaacacag	cagagaatga	cagcatcaag	acaacgtaga	1380
tggtgggtgcc	aggtcataaa	ttacaagctg	agtcgggttca	atctttatcct	gtaggcaatt	1440
aggagctagc	aaagatttct	gagcagtatg	tgacttttgg	aatctgtgct	ttaggaagtt	1500
gacttggcag	caaaggaggg	aattgtctat	gacagagcct	ggaggcaggt	tacaagctgg	1560
aggaaagtac	cgtgggtgga	gcacaaggca	acaaaggcat	ggacagagct	gggggccaga	1620
tactggcagg	acagatagga	gaggtgacct	ggggagaatg	cacagtcctt	ggtattcatt	1680
taaatggaca	aaagaaatga	tgctgtcaaa	agtacttcca	ttgggccagg	cgcagtggct	1740
cacccctgta	atcccagcac	tttgggaggg	cgaggcaggt	ggatcatttg	aggcctggag	1800
ttcaagacca	gcctgggtcaa	catgggtgaaa	ccctgtctct	actaaaaata	caaaaattag	1860
ctgaccggta	gtgggtgtgca	cctgtaatcc	cagctgcttg	ggaggctgag	gcaggagaat	1920
cacttgagcc	tgggaagcag	aggttgtggt	gaaccaagat	tatgccgctg	cactcctgtc	1980
tgggtgagag	agtgagaacc	tgtctcccaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaa	2036

<210> 149

<211> 2204

<212> DNA

<213> Homo sapiens

<400> 149

ggcctggggcg	acagagtgag	aatctgtctc	aaataaataa	ataaaattaa	attataacag	60
gcaaaccgtc	actggccagg	gaactcctac	gtggaataaa	cawagctgat	gtgtaaagaa	120
ttctgaggtg	tgcttcacag	gtcaccacac	acagctagcc	ttctgttggg	gtctggccca	180
gccctgtgct	tgggtaagga	cagaaggctc	tgggtgacgc	tccgtgaagg	agaaccaggt	240
tgctggcagc	tgtctcttgg	gcggtgatgc	tgatgacctat	cctttgggtct	catgcctggc	300
tctgctttgc	tgcgcaytct	gtctcccaact	ccgtgctgtc	tgagatgcag	gtgattgagc	360
aggaaacccc	agtgagtgca	aaatcctctc	gctcgcagct	ggacttgttt	gacgatgttg	420
gtactttcgc	ctctggaccc	ccaaagtaca	aggacaatcc	cttttcctta	ggggaaagct	480
ttggctcccc	ctgggataca	gatgctgcct	ggggatgga	cagggtagag	gagaaggagc	540
cagaagtgac	catctcaagc	atccggccta	tttcagaaag	agccacaaaac	cggaggggaag	600
tggagagccg	gagctcaggc	ctcgagtcta	gtgaggcgcg	tcagaaattc	gcaggagcca	660
aagccatctc	atctgacatg	ttctttgggc	gggagggtga	tgcggagtat	gaggccaggt	720
ctcggctgca	gcagctctca	ggcagcagtg	ccatcagctc	ttcagacctc	tttggggaca	780
tggatggagc	tcacggagca	ggaagtgtat	ctctggggaa	cgtgctgcct	acagcggaca	840
ttgccaggtt	taagcagggg	gtcaagtctg	tggctgggaa	aatggctgtg	ctggccaatg	900
gtgtgatgaa	ttccttgtag	gacgcgtacg	gttccactct	atccgagctc	tgtgactcag	960
gcttacgatg	gtgacggcaa	caagaactcc	acagttccca	ggctggggat	gctttgcctt	1020
gtggaagctg	gggaggattt	gttacttcgt	atgtgtgggt	tgtgtgtggg	gtggcctttg	1080
aggcgctcac	tcctgtgagg	ggaatgggtca	gtaccagccc	ttgtcctctg	cctgtggact	1140
gagcccttta	ttccctctca	caccaccctc	cgtgtgttag	actcttgtcc	ttctgtcctg	1200
ccccacagc	tgctgtcac	ttatcctgcc	atactgggaa	aggggggtcc	cccacgatgg	1260
cttattctgg	gtccagactt	tccccaggta	gggaaagcgg	aaggtagaag	gctttttttg	1320
ctggctctag	ggttcttcta	gttcgaggcc	ttgggtcccc	atcctctgga	accaggggga	1380
ggcctggaag	gagttcactg	tagaccgcgc	ccatggggaa	agaggctgcg	gacttgctgc	1440
tgctgctgct	gccagtggcc	tcttctgggt	gccaggagag	gggaaggacc	tttgtctggg	1500
cgttaccaag	ggctggaaac	tttacctggg	acctaaagggt	ttcatttggg	atcagaccgg	1560
agacccttgg	gttctcccgt	ctcaccaccc	ctttctacag	taagcacttg	gaagattgtt	1620
tcagggtgtc	tcagggtccc	tctgtacctg	ctgctgtgga	atgcaggacc	ctctgtgaca	1680
ttctttatcc	cttcttcccc	gggttgggtg	ccatggagggt	tcttgtctgc	tgtgattcga	1740
ctctggatgc	tgtgagcttg	atgctggcca	gggaagcaga	ggatgtgaga	ggcagaggca	1800
ggctcctggg	ctgagctcc	ttcctctgca	tcattctggg	cttggcctgg	acagcacccg	1860
ccagtgagag	ctgtgggcct	caccctctgg	cagctgagcc	aagcactgtc	attcttgggtg	1920
ccatcttccc	ctgccgcacc	ggcagctctca	gcccagcccc	cacctttggg	ttgtagggtt	1980
ggctcccaag	caacacagac	cactcttccc	cttgccccctc	ccccagaggg	acttgacttt	2040
ctttctggac	tgtttgtatt	gaaacaaagt	gggtgtcaaaa	taaagcccct	gcagggcctg	2100
gctccctgtt	ggtctgagtg	aaaaaaaaaa	aaaaaaaaaac	tcgggtcgac	ggtatcgata	2160
agcttgatat	cgaattcgat	atcaagctta	tcgataccgt	cgac		2204

<210> 150

<211> 1047

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> n equals a,t,g, or c

<400> 150
caggaactag gaggtttctca ctgcccagagc aganggccct acacccaccg aggcattgggg 60
ctccctgggc tggtctgctt ggccgtgctg gctgccagca gcttctccaa ggcacggggag 120
gaagaaatta cccctgtggt ctccattgcc tacaaagtcc tggaagtttt ccccaaaggc 180
cgctgggtgc tcataacctg ctgtgcaccc cagccaccac cgcccatcac ctattccctc 240
tgtggaacca agaacatcaa ggtggccaag aaggtggtga agaccacga gccggcctcc 300
ttcaacctca acgtcacact caagtccagt ccagacctgc tcacctactt ctgccgggag 360
tcctccacct caggtgcccc tgtggacagt gccaggctac agatgcactg ggagctgtgg 420
tccagacaga ggggcaggcc ccagggtgga gatgatctgc caggcgtcct cgggcagccc 480
acctatcacc aacagcctga tcgggaagga tgggcagggtc cacctgcagc agagaccatg 540
ccacaggcag cctgccaact tctccttctt gccgagccag acatcggact ggttctgtgtg 600
ccaggctgca aacaacgcca atgtccagca cagcgccctc acagtgggtgc ccccaggagg 660
gttccccagg gcacccacca tcgtgctggt tggcagcctt gcctccactg cggccatcac 720
ctccaggatg ctgggctgga cccacgtggg cccagggtgtg gaccagaaga tggaggactg 780
gcagggtccc ctggagagcc ccatecttgc cttgccgctc tacaggagca cccgccgtct 840
gagtgaagag gaggttgggg ggttcaggat aggggaatggg gaggtcagag gacgcaaagc 900
agcagccatg tagaatgaac ygtccagaga gccaaagcacg gcagaggact gcaggccatc 960
agcgtgcact gttcgtatatt ggagttcatg caaaatgagt gtgttttagc tgctcttgcc 1020
acaaaaaaaa aaaaaaaaaa aactcga 1047

<210> 151
<211> 2114
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (676)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (699)
<223> n equals a,t,g, or c

<400> 151
gattttgaat ggcagccatt gttatttttc attttctccc cttttgcttt ctctgtttcc 60
ctggtttaaa gtgtgcactc taataattta gaagatggca gaagcattca agagcgggac 120
cttctgagca gggcgaggct ttgagttcgg ggcagttttc atggttagcat ctgcctgtgc 180
tgaagcagaa aacagcatct gggacccccca tgacttgggc actcttagga cagcccgcag 240
atggttgctg ggggttcagg ggcccttccc gcctggctcc tcttgtctgc atcctgcctc 300
gtcatgtgga cctagttcac actctgaggc cctgcaaaac atgtcacctg tgggcacctc 360
cagttttcca gtgcctgggt cgcagctcgt ctccggcagct gcacccctag ggccattccc 420
aaaacctcgg gtcacggcgg gggcctaggg ggacagcaag gcctttgccc cttaaagcctg 480
atgaaaattt gtaggagaga cttcagtgct cttawgaatt tcagtgaagc cgagtgggat 540
taagggtgaca gacagaagct ctaagtgcct tcttcaggga gataaagcgc tggcgagtgc 600
atcattttaa ccgaagatgg agtgagcgcc aacaggcact ggtgggtgtt gctgttctaa 660
tgggattgct tcgtanatgg cccttcatgg cggaacacnc gtgtgtcagt ggggttcggg 720
ctgcggttg gctgtgartg tccctgtgtg tctcttacag gaacartgtg tgggtggatgc 780
agctctggar tacgttccc ggcgtcacca rtttgggtct acacaaaaca rccatttcat 840
cttgcccttt aatcagtcgg ctgtcagaaa gaagctctcg gttgagctaa gcacccgcac 900
gttcgcctcc agcggcctga ttactacat ggctcatcag aaccaagcag actacgtgtg 960
gctccagctg cacggggggc gcctccactt catgtttgac cttggcgaag gcagaacaaa 1020

0950032-091201

ggtctctcac	cctgcactgc	tcagtgatgg	caagtggcac	acgggtcaaga	cagactatgt	1080
taaaagaaaa	ggcttcataa	ctgtcgacgg	ccgagagtct	cccatgggtga	ctgtgggtggg	1140
agatggaacc	atgctggatg	tggagggttt	gttctaccta	ggaggcctgc	cctcccagta	1200
ccaggccagg	aaaattggaa	atatcaccca	cagcatccct	gcctgcattg	gggatgtgac	1260
ggttaacagc	aaacagctgg	acaaggacag	cccgtgtct	gccttcacgg	tgaacagggtg	1320
ctacgcagtg	gcccaggaag	gaacatactt	tgacggaagc	ggatatgcag	ctcttgtcaa	1380
agagggttac	aaagtccagt	cagatgtgaa	catcacactg	gagtttcgaa	cctcctcgca	1440
gaatggcgtc	ctcctgggga	tcagcactgc	caaagtggat	gccattggac	tagagcttgt	1500
ggacggcaag	gtcttgttcc	atgtcaacaa	tgggtgctggc	aggataacag	ctgcatatga	1560
gccccaaacc	gccactgtgc	tctgtgatgg	aaaatggcac	actcttcaag	ctaacaaaag	1620
caaacaccgt	atcactctga	ttgttgaygg	gaacgcagtt	ggcgctgaaa	gtccacacac	1680
ccagtctacc	tcagtggaca	ccaacaatcc	catttatgtt	ggtggctatc	ctgctgggtgt	1740
gaagcaaaaa	tgcttgcgca	gccagacctc	gttccgcggg	tgtttgagga	agctagctct	1800
gattaagagc	ccgcagggtgc	agtcctttga	cttcagcaga	gcgttcgaac	tgcacggagt	1860
tttccttcat	tcctgtcctg	ggaccgagtc	ctgaacttca	agcagaatcc	tcagttggaa	1920
tcattgctaa	tattttgagg	agaagtgtat	gtgtgaatta	agaatctctt	cagttcataat	1980
ttcattttcca	actcagggtta	agtgtttctg	gggagagatg	ttgtgtttac	gttacactaa	2040
aaccacatgt	gcaacaaata	cctccattaa	atgggtctaaa	atgtaaaaaa	aaaaaaaaaa	2100
aaaaaaaaaa	aaaa					2114

<210> 152
 <211> 676
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (638)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (656)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (675)
 <223> n equals a,t,g, or c

<400> 152						
ttcggcagag	tgccccctcc	tcgacactaa	gccccccaca	gactcagcct	ccaaggaacc	60
gctgagcacc	cttgaagcat	gtcattgtca	gtgatacctt	tttattctat	ggaactctaa	120
cctattcgtg	tcatattgac	cttttgctgc	atgagtcata	aattatgaaa	tcagtcttac	180
agtttttgaa	atktagccag	catttgtaag	gctaaacctt	tttcatgaac	tgaatttaag	240
tgaataacca	agccacagtt	cctcctcaaa	tggagagtga	tgatcgacat	ttgaatctct	300
ttgccctttc	caacggctat	ggcatcaggt	tctaaaataa	gctcgttaatt	tttcctgtta	360
ttttaataat	atggaaatat	tagcatagtg	tttcttttga	tagtgataga	ctataatcca	420
tatttaaatt	ttatagagaa	gaaattttat	tgtactgtga	tgtagatatt	tattatccag	480
gtaaggattt	gcccgggtgtg	tattttttac	aattgagaca	ttttacttta	atcttttaaaa	540
aaaatgcatt	aaaaacacac	tcaaaaaaaa	aaaaaaaaaa	ctcgaggggg	ggccccggtam	600
ccaattcgsc	ctatagttag	tsgtataaaa	tcactggngt	cgtttacaag	tcggangggg	660
aaaccgggtg	taccna					676

<210> 153
 <211> 1121
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE

<222> (286)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1102)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1105)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1106)
<223> n equals a,t,g, or c

<400> 153

gtttctttat	tcctaattgca	gttagaaaga	cctttctcct	tgagctcttt	gactcccaga	60
aggtacccca	gtccccagtg	tacttagaaa	ggatctcgaa	cattgctgga	cgctcctata	120
gtactcacia	agggctagcc	ttgaatgtca	ctcgcccagt	cttcagtctc	ctgacttaga	180
gatacaatca	cgtcacaggt	ctcttggcct	caatctgaaa	actgctgccg	ccgcgcgcag	240
gagactcgca	tgccgccacc	acctcaactg	gagggcgccg	agccanccgt	cgccccctag	300
accctgacag	ctgcagctgc	cttgcccttg	cgccgcctcc	ctgcagggcc	cctgttccaa	360
tgaaaaacag	aacacaaaag	agcagagcac	ctaagcctgt	ctctgcctcc	ctgtctaccg	420
gactggccag	ggccaagacc	cccgtctgtc	cactgcgggg	ctgggcgggc	tgactccctg	480
cttctctcar	gctgctgctt	cccctgcagc	cagggctctg	gcagggtgca	gccggctctc	540
ggg'gcacgc	agcttctctt	aagtacactg	tgtgtgcttc	ccggacctgc	ggcgatgcca	600
cgggcctgcc	ttttctatgc	gcctcaactg	cttaccaccc	tgtgcaggta	atgcaactga	660
ctttgtctca	tcagtctttt	tctttccctg	ccacccttta	tttatcaagc	gtaatgttac	720
actttaaagg	acagcaaata	agaactttgt	agaatcccac	caggactttg	ctaacaataa	780
tgtttggaag	taaagaagtg	ctctgaaaaa	atatcagcca	ccaaaatagt	tatgttggca	840
ctgtgttcac	acgcatgggc	cccacacccc	caggttgggt	gggttttttt	gttttttggg	900
tttttttggg	gggggggctt	tttcatgtta	catccatata	tgtatttata	tcttatttgt	960
ttcactttca	agtgtatcat	ggcaaatgta	cagatttttt	tgtaataaat	gtgctaggat	1020
ttgctaaaaa	agaaaaaaaa	aaaacccttt	tgagtttgcc	ctagaataaa	tgagacttaa	1080
ttcaaaaaaa	aaggggaaat	gnagnnggaa	aaaaaaaagg	g		1121

<210> 154
<211> 1189
<212> DNA
<213> Homo sapiens

<400> 154

ggcacgagat	tgttttttccc	accttgctgc	tgaacctgtc	tcctcccagg	tttcttctct	60
ggagaagttt	ttgtaaacca	aacagacaag	caggcaggca	gcctgagagc	tggcccaggg	120
gtcccctggc	aggggaaact	ctggtgcccg	ggagggcacg	aggctctaga	aatgcccttc	180
actttctcct	ggtgtttttc	tctctggacc	cttctgaatc	atagaccgga	caagagcctg	240
cagcggaagg	gactctgggc	tgtgcctgaa	gctggctggg	ggcaggacaa	cacagctgct	300
tcccaggctt	gccactctg	gggaccgctg	ggggctggca	aaggcatcgg	tcagcggggc	360
agcggggctg	gccatgagg	tccaccttca	gccctttggc	ttcaaggatg	gagatggttt	420
tgccctccct	ctctgccctc	gggtggggct	ggtgggtctg	cagctgggtg	gggaacttcc	480
ccacggatgg	cgggtggagg	ggttcgcacc	gtgctgggct	ccccctgact	gtagcacgga	540
gtgttggggc	tgggcgccat	ctccaggagg	gcttgagagc	tcagcctgcc	tgggagagcc	600
cttggtggcga	ggcattaaaa	cttgggcacc	agcttctttc	tcggtggcag	aaattttgaa	660
gtcagagaag	aaacggctct	ttgttggctt	ctttgctttc	tcgtgggtcc	tttggcaggc	720
ctcccttttg	ggagagggag	gggagagacc	acagccgggt	gtgtgtctgc	agcacctggg	780
gccctcaagc	tttctgtctg	tcttctcctt	cctcctcctt	tcccctttct	ctttcctcat	840
ttcctagacg	tacgtcaact	gtatgtacat	accggggctc	ctctcctaac	atatatgtat	900
atacacatcc	atatacatat	attgtgtggg	ttcccctttc	tttccttttt	ttaagcaaca	960

aaactatgga	aataatacc	caacagatga	gcgaaaatgt	attattgtaa	agttttat	1020
ttttaatact	gttgctata	atggggaaaa	aggacattgg	ccccgcagt	ccctgcccca	1080
gtcagcctgg	ctgggctctg	gtgggggctc	ctgatccgca	tccaagctta	accaaggctc	1140
caataaacgt	gctaggaagc	aaqcaaaaaa	aaaaaaaaaa	aaaaaaaaaa		1189

<400>	155						
ggcacgaggt	caatggccttg	gacagacaga	cgggctcagt	ggcattttgga	accctctttt	60	
gtgccctccc	attctctctg	gaattgtttc	aagtctgctg	gttttcaaac	aagaaaagac	120	
ctttctggcc	atagggagaa	tagcagggag	tctatgtttt	ggtggttaca	ttggaaacat	180	
cttaagcaag	agagggaaa	ttgatttttag	gcacacatgt	accctccttg	acagcaggaa	240	
ctcagacttc	aatctttggg	gtctaagacc	agaatathtt	ccttctgcca	gaaaagaatc	300	
ttgcacatat	actcctgagg	catgagtgtg	tgggtccattg	caagaaatag	ctaaaggctg	360	
ctttccagga	cccaaagccc	catttaatgc	aagaaccaga	gaagtgttct	aggccatttag	420	
tggacaatgt	catgttttga	gaaagataac	aacacaaata	atgtaacctt	tccttaaaag	480	
gcagaactca	atccatttta	tttgatgctt	attctaacc	taaccctggg	tcacctggaa	540	
tgaagaactc	tatgaataat	atltgatttt	acaacgtgtt	atgggttatgt	gaaaactaaa	600	
catttgcctt	ttataaagac	tgacaaaata	taaatcttta	ttctaaccct	atccccaaaa	660	
ctagccaggc	cacaccccag	atgttcttat	tgactatttg	gaagatagaa	aaggcgttgt	720	
gtttttttgt	tttttttgtt	tgttgtcatt	gttgtttttt	tcagaagacc	agtgtctcag	780	
ttctgtctta	gtagtaccac	accgcatacc	tggttttaaa	agttttgttt	agcctagaga	840	
cagatcatac	gagttcaaca	atgtcacagt	tgattgaaaa	gacaggttgg	tgtctatttt	900	
tcttttttaa	atatctgaat	gtgtattttg	aatacgtaaa	ggtaaaaaaa	aatagtgcca	960	
aaaatgtgca	aggcatctca	ttacagctca	tgtacgtctg	tttttataag	atcaatatta	1020	
aaaccatttg	ggattaaata	tttttgaaata	ggatacactc	ttgrgaaact	cgrgaatgga	1080	
ctgagccttc	ctacaagcca	ctctttgttt	ttaaaacagt	ggggaaatac	gtttacagag	1140	
attgtgagct	tcagagaatg	catgtgatgg	tgtgtattac	atgctaattc	atataagctg	1200	
tatctgtcag	ctaccaccct	gtgcttttaa	aatgcacaca	ctcaaccctc	tttagcttgg	1260	
agctcagctt	tttgtctttt	tttttttttt	tgtagaatta	tttagctaac	ataagtatct	1320	
tgawtgcctac	cttagtgcca	tctctactta	gtttctataga	tgtgctttaa	ctatgatcct	1380	
ttgaagctca	ccccttgagg	ascctacaga	acctcaggct	gatagctttg	aagactgcca	1440	
aacagcccag	aaggaagcaa	agcatctgca	taatcaggag	ggttgtataa	caagtagtga	1500	
tttgccaat	atgtgggtag	ctttaggctg	aggcacgggc	ctcaggcaaa	aatgcccttc	1560	
gagtgaatcc	gaagggcattg	atcttcttat	gtccttgact	aggcatgacg	agtcatttga	1620	
ggtcagatat	tattttgagtt	gttcagcacc	cccaaaggta	ggcatttctc	tgggaaattt	1680	
tcattttccat	ttttctgcca	aacaaaataa	aaagcaaaac	aaactttcta	agctagaata	1740	
atgaaaattaa	gtcatttttc	actttgtata	tattgatgct	aataaaaacag	atgaaaaara	1800	
aaaaa	aaaaactcga					1820	

```
<220>
<221> SITE
<222> (1549)
<223> n equals a,t,g, or c
```

```
<400> 156
gacaattcct gccctaag cctaggagat ccctctccct tgctagagag ccacccccaa      60
atcaaaatgt gaaaatccct aqaaagcaat agccttcgag gtaccttgca ctgaatttcc    120
```

T02T60"2800560

cacccagcc	cttccacccg	atgggaggct	gtaacttggg	caactggggtg	actttttcca	180
tgccttgtc	atctccagg	tgggaggcag	gccccacttc	ccctccccta	tccccactt	240
cccattgtt	ttgcccacc	cctaactctc	agactgaacc	cagatggaga	tctgagtgc	300
aaaacaattc	ttgatgtaac	tttgtacata	tcttctacta	ccgttggggg	ctcttgggg	360
tagagggtgg	ggcggctctg	tggggcattg	ctccccctca	cctctcaaaa	gaccttacag	420
tattttcacag	tatctctacc	cgcacgcgag	tattacagta	tctagctgga	atatccccct	480
acagccccc	aggaccctat	gaggaaggga	aggagccagg	gagagtgaag	taaggctctg	540
gactggggag	gtgggatctg	aatgaactca	tttgcataatc	atttgcatacc	tccgcttggc	600
agccgctttc	tacaaactca	ttcactggag	tctgggtccc	aatcagccgg	gtccaggact	660
cctctcacac	agacacatct	ccggaggctg	ggcctcctga	aaagtgtttg	cttgggggtg	720
ctgtgtaaca	acccctccct	attcatattt	cttggggacc	ccctaccag	ccagccagg	780
tgatctgaaa	ggtatacttt	gctagctcag	tgagctagtt	cactcaccat	gttgggtgagc	840
agagagccac	acctttcccc	attttaccyt	gggaaactca	ctccaccatc	tttgccatct	900
cttgaaagtc	ccttctgcaa	tctgacctca	atctttttgtg	ctgcagtttg	tccagagggg	960
acacagatgt	ggggtcagg	atgaggatta	ttgraaaacc	catcatctct	ttttttttcc	1020
ccgtctccct	attagccaat	ccgatctcag	agtctctgag	tggcctcctt	gcacccttct	1080
cttcagcacc	cagtaggtgc	ttaataagtg	tttgctgcat	tgaattatct	ccctattcct	1140
tctcatttgc	cctctagctt	cccatacctt	ctccaagtgt	cttcctccct	ttctttgtct	1200
ggctccctat	gactttctat	ttttttttcc	tccgtgtggg	tcccattgtt	ttctgtcctg	1260
tctctatctt	agtctttgtc	tgtcttcttc	ctttctctca	atgtctcaac	tctctctccc	1320
caatttcccc	atttaaaaaa	aaaaaaaagt	gccaaacttc	cttgggaactg	agccgctctg	1380
gggggagagg	accttgagata	gaggggagga	aatgggacca	tttctctttg	aggaggtccc	1440
taagaggcat	tgcaaaagtg	tggacatgga	gctaaatttg	gtcccccttc	cacagccctc	1500
ccaccctgag	tttttcttag	aatctttgta	aaaaaaaaaa	aaaaaaaacnn	gagggggggg	1560
ccggtaacca	att					1573

<210> 157

<211> 1304

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> n equals a,t,g, or c

<400> 157

ggcacgaggt	tggggccaagg	gcagaggggg	ctgcacctgc	nggcctggga	agcattgctc	60
agggtggggg	gctgggacca	tggcccgcag	aggcactgcc	acagctgtga	gggccaagat	120
gctgtccccc	catccaaaac	ccgtgcgcca	ctgcagttag	tgttgagggg	acctctcctc	180
ccctcttaca	cctactcaga	tgaggcagca	gcagacccat	ctcgcggcgg	gggttttgtt	240
ctgttgccgc	ctaactttct	catectcggt	ctctggaaag	tcaggctgag	aaatccttct	300
ccaggccagg	ccgctgcggt	acactggatg	gttctgaagc	tggccattg	aaagagcctc	360
ttaaggcagc	tgggacagag	gcctggtggc	cctgctgggc	agcccaactg	ctggggggaga	420
cgtttctgcc	accctgggtg	atgagcagct	tttccccctt	ggctttcttg	gggaggagtg	480
ggcctcctta	gggagacagg	tgaccctggg	tgccaccctt	gccccgtgtg	tgccccgggt	540
gttctcagtg	gttgtctgaag	gcaggtagag	ggtgctgtcc	agtatcccc	atgtgaaggt	600
cacttccctt	ctcatggagt	cagctgagca	tcagctcagc	cctgccatgt	ccccactcac	660
cctcctcgcc	tcctgtccgg	ccctgggttt	ctagcgggtg	ctgaggcatc	actctggccc	720
attgacagat	gagaggctctg	aagccttcc	ggccacaggc	atcactttct	cctcctcctc	780
atgccttgc	ttgtccttct	cgtgttgcca	tggggttctg	agaggctggg	agttcacaga	840
cctcagacac	agctgagtc	gacaaccatt	ggggtggggc	tgcatcagtc	tccggagtg	900
cccgccacct	cctgaagcag	ggcctggccc	acccaagggtg	cctggggcag	gcggggaccg	960
tcattcgctg	ccattggctt	ctcagatgta	tttcaaggac	ttaaagtggc	tctaagatct	1020
aagatggccc	ggcgcgggtg	ctcccgctg	taatcccagc	actttgggag	gccgaggcgg	1080
gcggtatgag	tgaggctcgg	agtttgagtc	ccgctctcta	ctaaaaatac	aaaattagcc	1140
ggacaaggtg	gcgcatgcct	ataatcccag	gtactcagga	ggctgaggca	ggagaatcac	1200
ttgaacctgg	gaggcagagg	ttgcagttag	ccaagattgt	gccactgcac	tccagcctga	1260
gcaacaaaag	caaaactcta	tctttaaaaa	aaaaaaaaaa	aaaa		1304

<210> 158

<211> 1867
 <212> DNA
 <213> Homo sapiens

<400> 158
 ggcacgagct aaccacacca tccatctgca gatagaacat catcagcaac attgaaatac 60
 cccatgtgct ctctgcttcc taatctcagc gccctcctgt cctccatgat gaatgtttct 120
 cttgaaatctt actttgttgt ctttctttca cttttctgtg tcgttttacc attacatgca 180
 ttattcctaa agtcgttctt ttttttggat tttgcttgct ttcaaatttt atgaaaatgg 240
 cagcaaaatg tttatattct tctgccactt gctttttttc atttaatat gttttgaaga 300
 tctatgcata ctgatgcaca ctgatcatat tttcagtgtt gtactaatta cagtttatga 360
 ctattccaca atttggtcat ccatttatct cctcattttt gtgtatttgg tttgttggaa 420
 gatttcctgg cttttttttt ctattatcaa ctgggctgcc acatatgtct ttatgcctgt 480
 ttcattgataa atacgtgcaa gaggccaggc tatgcaaagt gccagcttta caagatcatg 540
 agcagctggt ttgctacgtg gtattgccaa tttagactca cacaagtggg aaagaagcat 600
 cccagtgct ctaaactcct gccaacactt agtgtcacca ggcttcttaa tttttacca 660
 tctggccagt ggataatagc attgaaaagt tatttttatt gtgatttggg gtccaatatt 720
 ttttctgtaa gaaatgcatg tacaatgtta taagaacatg caaaaatcaa aatactttat 780
 aaatgttcac tttataaaaa atgaatgaga aaaacataac gcattttaca taaagaaaat 840
 ctgtaatgct tttgttattg gctgggtatt ttcacacctt ccaagtgggt gctgttgata 900
 aattcagcaa taataccttt atgtttatta atattaaatg ataatgtcga attaatataa 960
 tgaagttaa tttattgata gttattcatt atatcctgct gttctaactc atcctggaag 1020
 agaatagagt gaaagagaaa ttgcctttat atataaatga ctcatagaat ttcataact 1080
 gacctaaata gatttcattg caaaggattt atagaggtaa taacacagta actcttagga 1140
 ctgttttgag attttcaca tttgaaaaat ccttttagat ccttggttga caaatgccct 1200
 ggctgtgcta attatatgac atttccctgac actagtgcg tggcatggcc tctcccgct 1260
 tacattatag attgttttct gcccccatgg gatctgattt gtttaaggctc attttctatt 1320
 ttaatgtggt ggaagaattt tagaaaccct agaaccctc tttcacctc cactgaaaca 1380
 aatagaagca gtgtattagt cagttttctc actgttatga agaaatacct gagactgggt 1440
 aatttatgaa gaaaagaggt tgaattggct catggttcca cagctgtaca ggaagcatgg 1500
 caacatctgc ctctggagag gcctcaggaa acttttactc atgggtggag gcaaagtggg 1560
 agcaggtgtc ttatgtgaca gaagcaggac caagagagag acggggggag tgctacacac 1620
 ttttttttaa acagagtctc actctgtccc tcaggctgga atgcagtgat gtgatctcgg 1680
 ttcgctgcaa cttgcgctc ccaggttcaa gcattttcta tgccgtgagt cccagctact 1740
 cgtgagctg agacagaga atcgcttcaa cccgagaggt ggagtttgtg gtgagccgag 1800
 atcgcgccat tgcactccag cctgagcaat cagaacgaaa ctctgtctca aaaaaaaaaa 1860
 aaaaaaa 1867

<210> 159
 <211> 1125
 <212> DNA
 <213> Homo sapiens

<400> 159
 gcttaaactt gattgtagct atctaagttg tagccaatga ggtgtcagaa aatgtaccat 60
 gcagtgaac ttcttaagta gcctagaaag atgggggtcac atccccctgg gttgtttcct 120
 tctttgtgtc attttgatct ctctcgctgg aaaacagaaa tgatgtctgg agtgtaagca 180
 gccatcttgg gctaggagac tacatgctga catggtgaca caccaccag aaagaatctg 240
 agtagtcgat gatcacagag ctaccatata agcactagac tctctacctc cacattttat 300
 ttgtgtgaca tagaaataaa gtttaagctt tgttttttct ggggtgtatg tgtgtacaca 360
 tgtgcgtctc tgtctgtctc acatgcagtg agacctaatt ctaactgata tgccggtagg 420
 atggggggac cttgccacaa ggtataattg tgggtgggatg gctgtgtctt gctcccattc 480
 aggatccatg gaaagctcct cctccttctt gttcccctgg atgccaagcg atgggcctga 540
 gaccctggct ttgccatgtg gatgtctccc ctcaggactt tggatgtgca gtgattgcta 600
 caaaaagggc aatgaagatg cctggaccac agccacacag tctccatcac agcagtggta 660
 ttctgtggaa tgagtactaa ttttctggcc acattttctg ttaaaaactg gttgttgagc 720
 tgcccacttg tcttgggtcaa gggatgctgg agtggcctgg gaaggcagtg ttgtttgctt 780
 ttcttaggat ggaacacact taggcatatt tttggtcaaa gcaaaaagaag aattcaaagg 840
 tgagagaagt tgaagataaa aaggggaaaa tgagggtagc agatgaagca aagtcacaca 900
 gaaagctggc aggcgagtag tagaatcaga gtacaggctg agcatcccaa atctgaaaat 960
 ccaaaatcgg aagtgtctca aaacctgaaa cttttggagc accaacacaa tgctcaaagt 1020

aaatgctcag tgaagcattt tggatttcat attttcagat ttgggtttgc ccaaccgggtg 1080
 taatacaaat attccaaaat caaaaaaaaaa aaaaaaaaaa aactc 1125

<210> 160
 <211> 2168
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (676)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (735)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1551)
 <223> n equals a,t,g, or c

<400> 160
 ggcacgagcc aggtagcccc atcccacaca ctttccacta gtgcctatat tgggatgaat 60
 cttctggcaa tcttccttaa aacttcaaga gacctcttta agattctgta gttgggtgag 120
 cctgtctgtg cccagggtag cctgaagtta aggtgagggc ttaacagtgg taccaggcag 180
 tttggatccc aactagctag ctgtccttgg gcaaatgact actttcctac tactgttact 240
 tcttgtttct attttctcct ctgtaaactg tgggtaatga aaagtgcgc aaagtaggggt 300
 ggggtgagtga cagctacagg ctcaactgtt ctgaaaactg caattcgaaa ttccacagcc 360
 ccttgaanaa aaaaagtctt tcagtgaatg ttcagcaaac tcccttgggt ggcaaaaactg 420
 acttgaatta acatgaggct atttatgata ttttgtaaat ctcaagttagt gagactagtt 480
 gtacatttta ctgtagaaat atccatgtgt ttgatttcag agtactacc tgaaaatacc 540
 caggatattg gaagcataga atatatgaat taaatgactt ttttaaaaaa ttgtggtaaa 600
 atacatataa cacaacattt actatcttga ccacttttaa gggtagagtt caatagtgtt 660
 tgtatattca cattgntgtg caaccaatct ccagaattct ttttacttat taaactgaaa 720
 ctctgtacct atcanacaac tccccgtttt cccctttccc cagccccctg caaccaccat 780
 ttgactttcc aaatttcttt tagaattgca aaaattccaa attccaaaac acatctggcc 840
 tcacaagcat ttcagataag ggattgggaa acttaattag ggaaggggaa tgcctamcat 900
 ttgatagagt caccaccttt cgagatgatc ctggaagagg gagttcttcc aatcttacag 960
 gggcctgtca accacagcac actgcttccc aaywtcgatg cccttttgta aaagatggca 1020
 cagkrgcaag aacaagggcc attagattct gaccagagca aacagaacgc aggtacttgc 1080
 atgggatgtt tgataccttc ccttctttt ctgtcattcc cttgatctca gtttttytca 1140
 gtaagtagaa gtgcacatgt tggcagctgg ttctggcatc tactttttat ttccattcca 1200
 gggaccatga tggaggatgc ttttacagtg aaaaggcatg aaaaccttta tgcagactga 1260
 actcatgggg aagatgctga cagtctgttt agaacttgct ggaagccatt gaaggccaga 1320
 tttatccatt ttgcagaact ctctaggaat cttcagaaaa gcagtagggc ttactctgct 1380
 gttccccagc agatcacagt atggagaccg gttctgagtc atgctcccta taactggaat 1440
 aacacagggg attcttcaca tgtttcataa tgtgtgtgag tgaaaggaca acccagactt 1500
 gktattgaaa aaccgmcag tggtcaggca tcattattgg aatgtcttct nccacactgc 1560
 ccattctgta aacatcctgg ggaaatgtcg aggttacttt ctgtgtgagg sttgtgcktt 1620
 cttwtcctgk ttgtaaatat cagggatgaa agtggatgcc ttyaraattg gagccctgaa 1680
 cmcaaaattc tgcagaatac aaaaccctct gatggaccac tcctgataaa tataaaataa 1740
 ccttagtacc agaacttcta cttttgggtt atggaaaata tgccaagaat tttatgtttt 1800
 aaaaacaaac tacaggctgg gcgtgggtgg tcacgcctgt aatctcagca ttttgggagg 1860
 ccaagccagg tggatcaact gaggtcagga gttcgagacc agcctggcca atatggtgaa 1920
 accccatcac tactaaaaat acaaaaatta gccaggcatg gtggtatatg catgtgttcc 1980
 cagctacttg ggaggctgag gcaggagaat tgcttgaacc cgggaggcag agtttgcagt 2040
 gagccgagat cgcaccgttg caccacagcc tgggtgacaa gagtgaagct ctgtgtcaaa 2100
 aaaaaaaaaa aaaaaaaaaa tcgtaggggg ggaccsgtac ccaatccgac cctgtgagtg 2160
 tatttcgta

<210> 161
 <211> 1260
 <212> DNA
 <213> Homo sapiens

<400> 161
 gtcgggttg atttttcttt tgggaatcag tcaaaaccca ctgtgggtta ttaagagtag 60
 aagatgactt ataaagggat aatgaggata gcctcctttt gctgggaaga cagaattttt 120
 cattccaaat tctaattctcc agtgtcacct tgcattgtcca tttctggatt tatattttgt 180
 attttagtat ttatatccca tgtttcattt gactctggga tacaagcaat tgtcagatgc 240
 accattattt tccagaccac taagaaagga aaaaaaaaaac ctaccgatta aactgtgaca 300
 caccattgat tgtaagacac accctgattg gtgagggtgta aaaatggggg aaagtggctc 360
 tcttagaatg aaatatctta gaatgaattt gtgtgagtca ggggcagggtg aaagtcattt 420
 tgcaggattc taatggcttc tccatacacc tctctccgaa gaaagaaagg acttgggggtg 480
 ttttgctgac tccctggcagc attcttggcc caatgtattc tgggtttgct cttccccgtt 540
 ggagagccct ttgccagaga acagccactg gcttgttgag ccaggaagct taccatgtga 600
 gtgcagcttg tgtctgaaga ggctgggcca gtacagataa tacgaatcac atttcactgg 660
 ctttttgatc ggctgttttag ctcttggcag cttgttccca gcattcatgt ttgctgtgag 720
 taggaaacac aaagaacctc gtcttcagaa cgagaaagac ttggggctgg attctagctg 780
 tgcccgtggc tggcttagtg ctcatgattg tggccctgtg cagaccactt tgcctccctc 840
 agtctcagtt tccccatcta tcaaaacgga tattcattcc tgccttgaat gtgttatgta 900
 ataatgatta aggaaaataa aatgcaagtg ttgaagtga tacaggatct ttatttcatt 960
 ccagaaaact ctgtaaagtt tccctcattta aaaattcctt ccttctgtgg ccgggtgtgg 1020
 tggctcacac tgtgatccca gcagtttggg aggccgaggc aggcagatca ctttaaggta 1080
 ggagttcgag accagcctgg ccaacatagt aaaaccctgt ctctacaaaa aatacaaaaa 1140
 ttagtcggac atactgtctt gaaccagga ggcagaggtt tcagttagct gagattgtgc 1200
 cgctgcactc cagcctagggc aacagagcga gactctgtct caaaaaaaaa aaaaaaaaaa 1260

<210> 162
 <211> 1109
 <212> DNA
 <213> Homo sapiens

<400> 162
 ctaaactatt tattcaaaag taacccaact aattaaagtg aaaaaaaatt gttgaatcac 60
 aatgaacaaa cataaaacaa tacttaaatg agaattctgt gtcttttttg gttttatctg 120
 tgatttatat tgtccagtat taaggaatgg ttatctttat cattcttcta acatgttttg 180
 gtttctctaa tggttcattt tccttttagct tgtgaaaatt agggcagttt gtccagagcc 240
 ttactcgcag gagacaccag acccaaccca tgcttagatt tctgttaata aaaggagaa 300
 gggatattga ataggtagta aaggcaggta caagttaag ggagcagggc tatcatatgt 360
 actaggtgag atttctataa atgtctgaaa agttacatgc atagtcattg gctcaggtaa 420
 tttctctgaa tttgaactta tttgatttat ttaaccaagt tattataata tgcagttctc 480
 tttaatcaat cttctattat tcaatcatct atccatttat taattcaaca aatatttatt 540
 aaagtgccta ccatgattat gtgctgtaga aaagacaagg acatttacta ggggggattg 600
 tgggccaat cggcatcata agcatgtctg aagcaaaaga caataatcac atccaacggc 660
 accagttcag ctcaacttta gaattcagca gtaacagtac agatggccta aagtacatct 720
 gtgtgtatct gtacgtgtgc acacacccat gtatatatat ttatctatct gtacaaacac 780
 tacatatgta tacacactat ctatgtaaaa tataatatat gtataatgca tataaattct 840
 aacaagtgta tttgtgttat ctttaaaata gaacaattgt atcttgaagt ggtaaatgca 900
 gagaattggg tttattgttg atctgtggat ttaatgattt ctagggtgaa aggacgttta 960
 agtgtacaat ttcttttctt aatttaatat atttatgtaa atgcatgcct gaaatttggt 1020
 tagattggct gtgtttttgtg tcttttaaca tgatcaaatg attaaaactt atcttatgac 1080
 ttgaaaaaaa aaaaaaaaaa aaactcgag 1109

<210> 163
 <211> 1109
 <212> DNA
 <213> Homo sapiens

<400> 163

ctaaactatt	tattcaaaaag	taacccaact	aattaaagt	aaaaaaaatt	gttgaatcac	60
aatgaacaaa	cataaaacaa	tacttaaatg	agaattctgt	gtcttttttg	gttttatctg	120
tgatttattt	tgtccagtat	taaggaatgg	ttatctttat	cattcttcta	acatgttttg	180
gtttctctaa	tggttcattt	tccttttagct	tgtgaaaatt	agggcagttt	gtccagagcc	240
ttactcgcag	gagacaccag	acccaaccca	tgcttagatt	tctgttaata	aaagggagaa	300
gggtatttga	ataggtagta	aaggcaggta	caagtttaag	ggagcagggc	tatcatatgt	360
actaggtgag	atttctataa	atgtctgaaa	agttacatgc	atagtcattg	gctcaggtaa	420
tttctctgaa	tttgaactta	tttgatttat	ttaaccaagt	tattataata	tgcagttctc	480
tttaatcaat	cttctattat	tcaatcatct	atccatttat	taattcaaca	aatatttatt	540
aaagtgccta	ccatgattat	gtgctgtaga	aaagacaagg	acatttacta	gggggggattg	600
tgggcccaat	cggcatcata	agcatgtctg	aagcaaaaga	caataatcac	atccaacggc	660
accagttcag	ctcaacttta	gaattcagca	gtaacagtac	agatggccta	aagtacatct	720
gtgtgtatct	gtacgtgtgc	acacacccat	gtatatatat	ttatctatct	gtacaaacac	780
tacatatgta	tacacactat	ctatgtaaaa	tataatatat	gtataatgca	tataaattct	840
aacaagtgtg	tttgtgttat	ctttaaaata	gaacaattgt	atcttgaagt	ggtaaattgca	900
gagaattggg	tttattgttg	atctgtggat	ttaatgattt	ctaggtgaaa	aggacgttta	960
agtgtacaat	ttcttttctt	aatttaatat	atttatgtaa	atgcatgcct	gaaatttggt	1020
tagattggct	gtgtttttgtg	tcttttaaca	tgatcaaagt	attaaacttt	atcttatgac	1080
ttgaaaaaaa	aaaaaaaaaa	aaactcgag				1109

<210> 164
 <211> 1614
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (28)
 <223> n equals a,t,g, or c

<400> 164						
ggaaggatcg	atcttatttta	actatgtntg	gaacaaccca	gtgaatatca	gactcggaat	60
tactatttca	ttctatttca	aatgcttata	aagctactat	tgtagattat	agtgttaattg	120
caaagtttac	agacttttga	tatggaaaac	cagataaaaac	aatgttacaa	aaggcaaata	180
taaagagtaw	gttttctttt	tagtgctttg	gaaaaatttc	acttaaactc	ttattactgt	240
atagattaag	ccctataatg	ctatttatat	tccaggggaa	cgaaaatctg	aatttgtttt	300
atgattttaa	gcctctgggt	tgcataattg	attgtaatac	tgatacagtt	tggctgtgtc	360
cccaccaaat	tgaatttgtg	taatagttcc	cataatccct	acgtgttggt	ggagggaccc	420
agtgggcagt	aatttaaatca	tggtgggtgg	taccctcatg	ctgttcttgt	gatggtgagt	480
tctcatgaga	tctgatgggt	gttttttttt	gttttgtttt	ttgttttttg	agatggagtt	540
ttgctcttgt	tgcccagact	ggagtgcaat	ggcacacgat	ctcggctcac	cgcaacctct	600
gcctcctggg	ttcaagcgat	tctcctgcct	cagcatctcg	agtagctggg	attacaggca	660
tgaccacca	cgcccagcta	attttgtatt	tttagtagag	acggggtttc	tccatgttgg	720
ttargctggc	ctcaaactcc	cgacctcagg	tgatccgccc	gcctgggcct	cccaaagtgc	780
tgggattaca	ggcgtgrcca	ctgctcctgg	cccaagatct	gatggttttg	taagggaatt	840
ttcccccttt	gcttggcact	tcttctgct	gccatgtgaa	gaaggatgtg	tttgcttccc	900
ttccaycatg	attgtaagtt	ycatgaggcc	tccycagcct	gtgggactgt	gagtcaatta	960
aacgtgttta	ctttataaat	taccagttct	caggcaattc	tttatagcag	tgtgagaaca	1020
gactaatatg	aataccaata	ctgaaaaagt	gtttcttgcc	tcacctgtgc	ctatgaacag	1080
gaattaaatt	ttaaagtatt	gccttaagat	ggctgtgcta	aataataatc	attgcaagag	1140
caatactttt	acctgtttct	agatgacaat	attactaaaa	tttctcaaat	gaagactttg	1200
tttagcttc	aattacttca	gaaaatataa	attttaaaga	tgactatgag	ataaatcatg	1260
aactcagtgg	aattttcaga	tgagatgggg	cgcgttcagg	gtggtatgac	tgtagacgga	1320
attttcagat	ctttgtyatt	tagaagcaag	tataggtata	acgtggacta	tcaactgata	1380
tctgcaata	atgttggttaa	aaagaaattt	gattgtagta	tttgttgctg	taggattata	1440
aatgtcaaat	atcattgtaa	acatttctat	atttttagaa	atatcttggg	tggcctgaaa	1500
cagaagtgag	gaaatcaatt	ttttaagggtg	agccattttg	cttttttaaa	aaattgagat	1560
tcaacttaca	taccataaag	ttcactcttc	taaaaaaaaa	aaaaaaaaaac	tcga	1614

<210> 165
 <211> 939

<212> DNA
<213> Homo sapiens

<400> 165
ccacgcgtcc gaaacgaagc tgaattcccc ttcacggacc tgaagcctaa ggatgctggg 60
aggtactttt gtgcctacaa gacaacagcc tcccatgagt ggtcagaaag cagtgaacac 120
ttgcagctgg tggtcacaga taaacacgat gaacttgaag ctccctcaat gaaaacagac 180
accagaacca tctttgtcgc catcttcagc tgcattctcca tcttctctct cttcctctca 240
gtcttcatca tctacagatg cagccagcac ggtgagctca gagaacgcaa agggagagag 300
ggggagtga gatttttctc ggtaggtaaa ttctctctgc attttttgta gggtcatcat 360
ctgaggaatc caccaagagg tagatgcttg gcatagctca tgctccactt agttcccatg 420
tcattctcaa gggaacccat tggcacatcc gggattggca ccctgagccc ccaccccagc 480
ccattctgtg accttctctc tctcccttct tctcccttcc tctccctaca ttgccctcac 540
cctctccccg aaatcttcac atcccatcct ttcacgtgtg tctctctctt tcagaaccag 600
ccattccaaa cttccagagc aggaggctgc cgaggcagat ttatccaata tggaaagggg 660
atctctctcg acggcagacc cccaaggagt gacatatgct gagctaagca ccagcgcctt 720
gtctgaggca gcttcagaca ccacccagga gccccagga tctcatgaat atgcggcact 780
gaaagtgtag caagaagaca gccctggcca ctaaaagagg ggggatcgtg ctggccaagg 840
ttatcggaat tctggagatg cagatactgt gtttccttgc tcttcgtcca tatcaataaa 900
attaagtttc tcgtcttaaa aagaaaaaaa aaaaaaaa 939

<210> 166
<211> 746
<212> DNA
<213> Homo sapiens

<400> 166
gcgccaggag cctgttaaca tcagccatcg tcaacccccc cgtgttcttc aacatcacccg 60
ttgacggcaa gccttttagac ctgcgtctcc ttcaagctgt ttgcagacaa gggtccaaag 120
ccagcagaaa acttttgtgc tctgagcact ggagagaaag gatttggtta taagagttcc 180
tgctttcaca gaattattcc aggggttatg tgcaggggtg gtgacttcat acgccataat 240
ggcactgggtg gcaagtccat ctatggggag aaatttgatg atgagaactt catcctaaag 300
catacaggtc ctggcatggt gtccatggca aatgctggac ccaatacaaa tgggtcccag 360
tttttaaatc gcaactgcaa gactgagtgg ttggatggca agcttggtgt ctttggcaag 420
gtgaaggcat gaattattgt gaggccatgg agtgctttgt gtccaggaat ggcaagaccg 480
gccagaagat caccattgct gactgtggac agctcttata agtttgactt gtgttttate 540
ttaaccacca gaccattcct tctgtagctc aggggagcac cctccacccc atttgctccc 600
agtatcctag aatctttgtg ctctcgctgc ggttcccttt gggttccatg ttttcttgt 660
tcccttccat gcctagctgg atgcagagtt aagtttatga ttatgaaata aaaactaat 720
aacaaaataa aaaaaaaaaa aaaaaa 746

<210> 167
<211> 1647
<212> DNA
<213> Homo sapiens

<400> 167
cccacgcgtc cgagggtgaaa accatccttt attgttgctg gcacaacttg atatatagtc 60
tgactcagaa ctgaagctca catctcaaat tcatttcatg ccagtaaagtg tggcaaagag 120
aagaaaggcc caagagcgag acaagaagaa tggagaaggg ggcagccaag aagaacttct 180
gggttcaggg tactgtttat ttgctccttc tcttcatgcc tgtggctgga tgtcccacaa 240
cactataaga aatataagtc aagccctttg tgtaagcaa gaactacaga ctccatcttt 300
tcaccccaat catgaatgac caataaaaag caagttattc cagaggaaga agcagccctt 360
gaaatgttaa ggcttaggct tgaaagggtg agagcaggaa ttctctcttt caaatcctag 420
agcataaacc catgtgtggc caagtggatg cagccctcaa gggcacatgc caagggcaga 480
gcagcccatg tagacagctt cggagggtcat ggggggtgtag ggagttcggg gtagctcttc 540
attaactatt tggtgggtga gtaaaagggt gaggctcagt ggcaggtacc tctgcaatga 600
caagctgcct cccctctatg tgtttagcat atgttattag aacatgtccg acacccctac 660
cgctgccatt tgggcccttt aataaagcca agtagagaaa tctggcaata aaaggcaaat 720
gtaagcatgc tttctttaag acgcatcata aatggttttc tttaagtga tggaaagagt 780
tgacagagat acacctttgt aagaaaacat taagaatgct ggctggctgt ggtggctcac 840

acctgtattc	ccagcacttt	gggaggccta	ggcaggagga	ttgcttgagc	ctgggacttc	900
gagaccagac	tgggaaacat	ggcaaaatcc	catctctaca	acaaaaatac	aaaaattagc	960
caagtgcggt	ggtgtgcctg	tagtcctagt	tacttgggag	gctgaggtgg	gagaatcacc	1020
tgagcccagg	aggtggaggc	tgcagtgagc	catgccaatg	cactccagtc	tgggcaacag	1080
agtgagaccc	tgtctcaaaa	ataaataaat	aaataaatga	ataaagagaa	tgctaatacat	1140
ttctgggttc	actgcgactc	actgtagtgc	tggggatccc	ccttgtaaca	ctggaactga	1200
aagacagtga	tgaagctat	gtcaagcatt	cattattctg	aagaggagga	gaaatgccac	1260
atacctttcc	catgggacct	gtgggtggaat	gaatccatac	ttctgcctca	cttcgagcag	1320
acttttgttc	tcggcgctcc	tcacgatgga	gtttcatgct	tcattttcac	atctctctgc	1380
acaattagat	tgggagctcc	ttgagggcag	agtacgtgcc	ttaatcttta	tctttgtaat	1440
gccacaatga	acagagtgcc	tcctggtaca	ctgaggagct	taagaaatac	tcactgaatg	1500
catgaatgaa	tgaatgaaca	aatgaaggaa	tgactaagga	tgtttgtagt	gctataatat	1560
agaatgggat	ttactctgct	ttaccagtta	gtttcataat	aaacaaatag	tctgtaaaaa	1620
aaaaaaaaaa	aaaaaaaaaa	aaaaaaa				1647

<210> 168

<211> 859

<212> DNA

<213> Homo sapiens

<400> 168

gaggtgaatg	agctggcgctc	tccagggtcca	ctctagtcac	tggggaatca	ggggagtgccc	60
aacagctgag	ggcatgtgac	agggaaactc	tgcagcttgc	aagtgtccct	gagtggtgcat	120
cagatgctct	gttccctccac	ggcagagtgc	ctccactaga	gagcctggcg	ccagtcacca	180
agactccctg	acccttgtct	gccaagaaga	aacagccaag	cctttgctgt	ctctgagggg	240
ctccctcggg	tgtccctggc	agactgcacc	agcctcacag	gcatctccca	agccgtgggt	300
cagggatgag	tctctcgggtg	gcttggtggc	tctcagtggtg	ctcagcagca	ggtgaggggc	360
ctaccccagg	gcagtgtctcg	gcattcagaa	ggccgacagg	aaaccagaag	tttccgaata	420
ttatggcccc	atctctctct	cagtcttcc	ttccctgaag	ctcttgtaaa	cccccttctt	480
tcctagctca	acacaacaaa	agaaaaccac	tggataggcc	gggcatgctg	gttcgtgcct	540
gtcatcccag	cactttggga	ggcccaggcg	ggtggatcac	ctgargtcag	gagttgaaga	600
ccagtctggc	caacgtgggtg	aggccccgtc	tctactaaaa	tacaaaaatt	agctgatgat	660
gcgtgacctg	aatcgcagct	actcgggagg	ctgagacagg	agaattgctt	gaaccgagga	720
ggcagatggc	gcagtgaacc	gggatcgtgc	cacttcattc	cagcccgggt	gacagagcga	780
gactccgtct	caaaaaaaaa	aaaamaaaaa	aaraamaaaa	aaaaaaaaaa	aaaaaaaaaa	840
aaaaaaaaaa	aaaaaaaaaa					859

<210> 169

<211> 2285

<212> DNA

<213> Homo sapiens

<400> 169

tgctcctgac	cacggctgta	gaggtggccc	agcgtggcg	rgagctggct	gagaagctgg	60
ccarggtctc	caagcagcag	atggacgcct	acgagtctcc	ccaccgggac	aggaacgggg	120
ttgtggacag	cgaggccatg	tggaaagcctg	cgtatgactt	cttactcacc	tggagccatc	180
agatcgggga	cagctaccgg	gatgtcatcc	aggagctgca	cctgggcctg	gacaagatga	240
aaaaccccat	caccaagcgc	tggaaagcacc	tcactgggac	tctgatcttg	gtgaactccc	300
tggacgttct	gagagcagcc	gccttcagcc	ctgcggacca	ggacgacttc	gtgatttgaa	360
tgggtccctt	ccccctctgc	tgtcttggtg	tgcaagccct	cttctgccct	gcgtgccctg	420
ctgtcaccgc	ggagctgaag	agggaggaag	ggcggtctgc	tcagacagat	ttagggcccg	480
ccagctaggc	tacaccatc	atgcgccgcc	ctcctccatc	gagggagagg	cctgaaggga	540
ctgcctactg	cagctcgttg	ccaatcacat	agctttctat	ttgttaagta	taaatttaaa	600
tttaaaatca	cttttttaac	gaatgggggg	aagggatcta	tgagaaagg	ggtatcta	660
ttttttatgg	accataaagg	tttaaaagaa	aataggggca	caggctgttg	aggtttttat	720
gttggttatag	acctttttta	attatgttag	agatgtatat	aggtatttaa	aggtcactgg	780
gagcgtttct	gattccccgg	cacactttgc	atttcaacac	tcagcccgga	aagatgctcg	840
ttcggttggt	ggacctcttt	cactccctgc	gtgtaagaag	gtgaatcacg	tgggaaaaag	900
tggcttttca	gtaaacgggt	acagctcatt	ctttctgaga	aggccccagg	tcctgctccc	960
tcctcggtat	tgattgtctt	ccgtgctttg	cctcactcgt	agtaaatgac	catccataga	1020
atatgtgaat	ctttgggtgag	cttcagtggtg	cagagtgaag	tccccatta	gcatttaggt	1080

0950082-091201

gccttgagct	gtttctgcca	atagattaga	aagcagccat	gagttgacag	tcttttagggc	1140
ccctgccagt	gtgcaattag	tcattgacaa	gaacaatgcc	atttgagagt	gaggtgggtcc	1200
ctgctgctac	gaggccattg	tactgttttt	tccttgaggt	caaagcagtg	cttcccatag	1260
agtttgctgc	ctctttctgtg	gacaggaaga	aaacttcatg	accgaatcag	agccttggtg	1320
gccactgact	ctcgtgctta	ttgcagatgc	tgtggttggc	ctcacaagca	acgccttatg	1380
ctgatgtgca	gaggtgccag	ctgccatttg	ccaaactctg	catttcattt	catctaaggc	1440
ttaacccttc	ttccttctctg	gtgtacctgt	gtctcctcgg	aaggaagtca	tagtttagat	1500
gaaaccattt	tttgtacaat	gtaaagatca	tctgagcaag	atgagcattt	tgtaaaaatg	1560
aaaatgtgac	tcacataaaa	tcaggaactt	gacacagtgt	tgcattaata	acttttagggt	1620
gcagacatgc	tgtgtgaatc	tcacaatgcg	tcgtagatgt	cgcggtgttg	aagggagcag	1680
gaggaaggac	tgatactggc	aaatcagtag	agtgaggtga	tccttagcaa	cgtgccagga	1740
cacttcctgt	gtgcctgcag	ttgtcaggga	ccatttgagg	tcccgaatct	cattctctaa	1800
aactgctttc	ttgaaacatg	ttacttcctt	agtataatca	atgtatactc	ccttactggc	1860
ctgaaacggt	gtatagctac	ttattcagat	actgaagacc	aacggactga	aaaaaagaac	1920
aaacattagc	tattttatgc	tgcaagaacc	aggacacaca	attcgccaat	catcccacca	1980
tataaccttc	gattgtgctt	ctcaactcca	cccataaatt	tctcccagag	accatctatc	2040
accttttccc	caaagaagaa	acaaaaccag	ttgcacctta	aaccatggat	attttttctt	2100
caggggcttt	aaatagtttc	ctatgcaacg	tgtctttag	cacaaataaa	attctacaaa	2160
agttgcagta	aattttatatt	ggatatttta	acctgttaag	tgtgtgtgtg	ttttctgtac	2220
ccaaccagac	tttaataata	acaaacatga	aacctaaaaa	aaraaaaaaa	aaaaaaaaaac	2280
tcgag						2285

<210> 170

<211> 1533

<212> DNA

<213> Homo sapiens

<400> 170

cctgtctgga	tgactttctg	cggctgttct	acccctcccc	ctccccgcgt	cgcttctgctgc	60
tgtcgtcggg	aggtgggtga	ggtgacgcaa	acagccccgt	tgttgccctc	cgcgatctccc	120
ctcaccacct	ttgcggccat	ccacgacttt	cgcaccttcc	gccattttcc	tgcttctgag	180
ggtggacaga	tcgcgctcgg	gtctcggcct	cctgagtgcc	ggtgactgctg	ggaggcgacg	240
gatgctctctg	ggggtgtgag	ctggggaagt	tcgtggtcac	ggatgcgtgt	ggggttctgtg	300
ctcagtcctgt	aacggsagga	aagatgaatg	ggagggtctga	ttttcgagag	ccgaatcgag	360
aggttccaag	accaattccc	cacatagggc	ctgattacat	tccaacagag	gaagaaagga	420
gagtcttctgc	agaatgcaat	gatgaaagct	tctggttcag	atctgtgcct	ttggctgcaa	480
caagtatgtt	gattactcaa	ggattaatta	gtaaagggaat	actttcaagt	catcccaaatt	540
atgggtccat	ccctaaactt	atacttgctt	gtatcatggg	atactttgct	ggaaaacttt	600
cttatgtgaa	aacttgccaa	gagaaattca	agaaaacttga	aaattcccc	cttgagaag	660
ctttacgatc	aggacaagca	cgacgatctt	caccacctgg	gcactattat	caaaagtcaa	720
aatatgactc	aagtgtgagt	ggtcaatcat	cttttctgac	atccccagca	gcagacaaca	780
tagaaatgct	tcctcattat	gagccaattc	cattcagttc	ttctatgaat	gaatctgctc	840
ccactgggat	tactgatcat	attgtccaag	gacctgatcc	caaccttgaa	gaaagtccta	900
aaagaaaaaa	tattacatat	gaggaattaa	ggaataagaa	cagagagtca	tatgaagtat	960
ctttaacaca	aaagactgac	ccctcagtc	ggcctatgca	tgaaagagtg	ccaaaaaag	1020
aagtcaaaagt	aaacaagtat	ggagatactt	gggatgagt	aaaaattaca	tcattggaca	1080
tgaaggagtt	tcaacatcca	gcttcatcta	ggtggtcatg	attacctgca	tgctttgagc	1140
tcagcagcag	tcttcataaa	cacattttaa	acaagatcct	gggtttttgt	ggtttgactt	1200
ctatggtgtt	ttaaaaaaac	acagattttt	agtgttaata	ttgtgtaaat	gtactcacct	1260
tagggattca	tttgaatgat	ggtattatac	catgattgta	tacagtttgt	gaaattgttg	1320
caagggcaaa	gataactctt	aaaaaacctg	cgagattaca	atgctctaga	atcagcatat	1380
aagaaaataa	atgatattctg	catgttgaat	tggggggag	gagcataattt	agcataattt	1440
ttaagtgtga	agctttgcat	caagaaatta	ttaaaaagct	ttttttctcc	aaaaaaaaaa	1500
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaa			1533

<210> 171

<211> 1778

<212> DNA

<213> Homo sapiens

<400> 171

09950002-09104

cggcacgagg	caggatgaga	atcgtggagt	gaggagggcag	gtagcccggtg	gggtgcctcc	60
tgtgctcggg	ggagctggaa	gccgcttagg	tgccagagct	ttttctgtga	ccaaattctg	120
gcttttgaaa	taaccagta	acagttctct	atcttttcat	tctgcccgct	cctcccacag	180
cctggctcct	cagaggaaag	gaaggacaag	gagtgctttg	cagcacgtgc	ccctggcggc	240
gtcatggtag	tttctggcc	ctgctgcccc	tgcccgctccg	tcttttatga	ttttatttta	300
ctcgtattgg	tttttttaaa	ttctattttt	gcagaactga	gcctttttct	gccctgcctt	360
tctcctgttt	gtctttcctt	tgtggttgat	attgtgttgt	cttctccaaa	gtatttgtca	420
ttagaaactt	acagcaagcg	tatacttttt	agcatgtcag	tattttttatt	atgttgccct	480
ccttgtcttt	gataactgcc	tgtggacgct	gtgtaaactt	tctggtaaaa	atcctttttt	540
ttccccctgt	agtctctcca	tttcaaggac	taaaacagtc	ttgcgttaag	taaaaacctg	600
tgaccagagc	tgaaggaaga	ctctaggact	gaaaactgca	acagaaatta	gcacaatttg	660
aaaacaaaac	aaaattgcaa	aagccttagt	tgctttttcc	acctaagaag	ttgatcaatg	720
gagaaaatgt	ccactggagt	ttgaataaat	aacttttgat	ttgggtgcaa	gcaaatagact	780
cagagaaggg	tccagctctc	aagctgaatg	acaaacatgc	tgttgtaaat	ttagtctcag	840
gtgtaaatca	ccaagccctc	tggtagccag	ggagctgggt	ggtctgtggt	gcatgtgtgt	900
ccctgtgatg	gcaatcattg	tagttgctgg	ccttcagaag	aattgaggat	ctgatggagg	960
ttttttatgt	attttttttc	tgttcacctt	gtgaccctgt	gtcaaaattt	ataaagatac	1020
aaaaggcatt	actgaaatgg	tactttctgt	aatttgatac	tatttggtct	aatcatcttc	1080
acttgactat	ttgtaatact	gttgtaatgt	taactctgtt	aagtacccaa	gctgcttgte	1140
ttccacaaa	gagtgcttta	ttacaagaa	tctgtgaaaa	tcacatttaa	acactgttgc	1200
atgttgtaag	accaggtggt	accttagtaa	cctaaaactt	gcaagagaat	attaatggta	1260
gctttagaag	actcaggagg	agaaactgac	ttcagagttg	gaagatgttg	caagtcgttc	1320
ctttttctgt	ccttcagggg	ctgaagaact	gggaggctgc	ccattgtttg	gttgccagtc	1380
atacaaatca	aaatcatatt	tccttccatg	aatggaagaa	acacactatt	ggttttttccc	1440
cttggaaca	gcaatcccaa	ataatgtcgg	ctacaaaaa	aaaaaagtta	ccactttttt	1500
agagtccttc	cctgtaacat	tggatttttt	ttttccctta	tgagatccac	ctaaggccat	1560
tgacgtggcc	tgcatctca	gtgacaatga	tctgcttctg	gatctcactg	ttgcctttgg	1620
ttagggaaca	caactagtaa	ctctgcagag	tgcttctctc	cgcagcccta	ctggaacaca	1680
gcagagtctg	tgccatgaag	cagttacaga	aacagaattg	atgtgctgct	aaaaaaaaaa	1740
aaaaaaaaaa	aactcgaggg	ggggcccggt	acccaatt			1778

<210> 172

<211> 871

<212> DNA

<213> Homo sapiens

<400> 172

gtttttcctt	gtagcatttg	gaaatgattt	actggaatta	caaaacctat	ttttccttta	60
aatttcagct	ttggctctgg	ctgcttttta	gaataatgca	agataaaaa	cacacctgag	120
ggctgaaaac	ggagagggaa	tgggagactt	gatattttaag	cagcttgaat	ggtttttctt	180
ttctttattt	ttaaagaaat	gcacttgcc	atgatactgt	ctctccagtg	aatgatttac	240
tctccatta	ctctattgat	acaatattgt	gcatgctagt	gttgattttc	tatacagtag	300
cttgaaattg	attaacttat	actgtagggt	ttagtatttc	ctatgacaaa	aaaaatttaag	360
tcttcaaat	ttttaagggt	tttttttttt	taattttaatt	ttcccttttg	ggggtaaaagt	420
ttgctctacc	aaatagtgat	tgtaacaaat	tgatctgttt	tggatgttgc	tatagtgaaca	480
tgcatgtata	tattttgttt	ttaaaagggg	gggagcaaaa	gaaacaccag	tgtttagctta	540
atcttaaatgt	ctggtgtttg	tcatgggtgaa	attataacta	ttacagtgtt	tggaaaacaa	600
caaatatgtt	ctctgaatga	gcctttgtgc	tttttgtcat	gttatgcagt	gaactatttt	660
taaggtctaa	tcagtgatta	tttttccagc	tccgtgtttc	tctaagggaat	tatttcacac	720
acggaccatc	tttagcagtt	tcctcagtg	tggaatatca	tgaatgtgag	tcattatgta	780
gctgtcgtac	attgagcaaa	taactttaca	gatctgaaaa	aaaaaaaaaa	aaaaaaaaaa	840
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	a			871

<210> 173

<211> 887

<212> DNA

<213> Homo sapiens

<400> 173

ctgcaggaat	tcggcacgag	gaaaatattg	tcttttttct	ttcctcactc	ttattggata	60
tttggttagt	cctaaacaaa	gtagcttttag	cttttaaatca	tactcattac	tgtatttttg	120

ttcaatgttt	cttgatttct	gcctacttta	ttaataatta	tctcttttatt	tcagtttggt	180
ctgttcttct	ctttcaatga	atctaataga	attcatggct	catttttattt	caatgtcttt	240
atactttctg	gtcagtgat	ttaaagtkat	acattttcct	ctgatttctg	cttttagttgt	300
gccctgcatg	attttatatg	cagagatatt	gttgtcattc	aattctaagt	atcttataat	360
ttctcttatg	atttctgctt	aagcccaagg	gtaatttaat	agcaggcttt	ttagtttcag	420
gactaggtaa	catttttggg	tctttttaaa	attattgttt	ttctaacttt	atcttcagtag	480
agttagggaa	catattctga	tgttgattca	ttggaattgt	ttgagccttt	ctctctgtaa	540
ttgttacaaa	tttaattttt	gtgaatatcc	catgtgagct	aaaaaaaaat	ctgtttttgt	600
tctctgctct	ccacccta	gagactttag	aaattctcag	ctgtaatcca	tgatccctgg	660
tctaataaaa	agaaggggtg	aaacatggac	ctgaccttca	gatggggagg	gggaggcaaa	720
agaacacaac	tgaaaatgct	ccccagcta	cattgaggag	gggtaaaggg	taggagggag	780
ctagggagag	aacattttaa	gggtgttgac	agagttttaa	taggtggtga	tagggacttg	840
aagtgatagc	aaaaacaaaa	aacaaaaaaa	aaaaaaaaaa	actcgag		887

<210> 174

<211> 1437

<212> DNA

<213> Homo sapiens

<400> 174

ggcagagcag	ctccaccggt	accgctaata	taagtaaagt	ttgtaaaatt	catacttaat	60
aaacaattta	ggacagtcac	gtctgcttac	aggtgttatt	tgtctgttaa	aactagtctg	120
cagatgtttc	ttgaatgctt	tgtcaaatta	agaaagttaa	agtgcataa	tgtttgaaga	180
caataagtgg	tggtgtatct	tgtttcta	aagataaact	tttttgtctt	tgctttatct	240
tattagggag	ttgtatgtca	gtgtataaaa	catactgtgt	ggtataacag	gcttaataaa	300
ttcttttaaa	ggagagaact	gaaactagcc	ctgtagattt	gtctggtgca	tgtgatgaaa	360
cctgcagctt	tatcggaagt	atggcaatgc	tctgctgggt	tatttttaagt	ggctgcgttt	420
tttttagttt	ggcaggtgta	gactttttta	gttgggcttt	agaaaatctg	ggttagcctg	480
aagaaaattg	cctcagcctc	cacagtacca	ttttaaatc	acataaaagg	tgaaagctcc	540
tggttcagtg	ccatggcttc	atggcattca	gtgattagtg	gtaatggtaa	acactgggtg	600
gttttgaagt	tgaatgtgcg	ataaaattat	tagccttaag	attggtaagc	tagcaatgaa	660
tgctaggggtg	ggaagctggg	gagccagtg	ccattagata	aatacctttc	aagtgtgagc	720
ctagacgtca	accctaaaa	acttaaccgt	aatgctaatt	gtgatcatta	tgaatccctt	780
tagtcacatt	agggggaaag	tagttggcta	taagtaccgt	cattcttagt	ccagtcagtc	840
ttaaaaacat	cttgggttac	ccactctgtc	cactcccata	ggctacagaa	aaagtcacaa	900
gcgcagtggt	tccaaccata	tgtgttttct	gcagttattt	ctcttggtct	ggccaaacaa	960
ccctaaaaat	ccttaccatt	ccacaaagtt	ggaccatcac	ttgtgcaccc	actttgacta	1020
tgagtatacc	accacattgc	atctctgttt	gcaccatgtc	ttccaggaga	ctagactact	1080
gttgctccagg	gtcaatttga	gtgtaaagaa	aatgtagaca	aggaattgcc	caatttttaa	1140
ttctgacttt	gctgacttaa	tttaaatgct	cgttctgaac	caattttctc	ctatcttctc	1200
taggggtttc	aaaagactca	gttaattgat	ttccaggaag	tactcatagc	aagttcataa	1260
aagttcttga	gacctaattt	tcttcacaaa	aaaagaaaag	atcttaagtc	atacatttta	1320
attgtgtaga	ggttgttcaa	ctgaagggaat	aaatgtctat	taaactaaaa	aaaaaaaaaa	1380
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaa	1437

<210> 175

<211> 1205

<212> DNA

<213> Homo sapiens

<400> 175

ggcacgaggt	ttgtacattg	gtgtttttaga	catgctattg	tatacttaat	agactgcaaa	60
cttctatatg	catcgataa	ccaaaaaatc	tgcgttgctt	gctttattgc	aatattcttt	120
attgtgggtg	tctagaacca	aacctgcagt	gcctccaagg	tgtgtccgtg	tatcataatt	180
tttcctttat	aaagttcctg	gtatcatggg	gctaaatgaa	aactgtctct	cctaaatgcc	240
tcaggattac	tttgtctacc	tcttgcccgt	aattgccttc	tggggaccta	ttgacatgga	300
tgtagttaac	gttttcat	tatggcatga	cagaaggggc	agtggagcag	cttctaattt	360
ttcaagagta	tttctcagta	attgggggtta	atgagtaaaa	aaaaaagtgc	attgaaattt	420
cacaatat	gtacttgcag	attactacaa	tgcagctaga	acgtgaaaag	gctcttgaac	480
ataagaatcg	aatgtcacga	atgcttgaag	acagagattt	attcgtaatg	cgactcaaag	540
ctgcacggca	gtctgtttat	gaggtgagct	tgctgatttt	tgggaaatgt	ttattcatga	600

gcttttctagt	attggcctaa	gggttctccc	ttaacaaatt	ggtatattct	ttattgagtt	660
actatgtgta	acggtcattc	aaataataga	aatttttgga	tgatatttca	taagcaaac	720
aatcatcaaa	attgttctaa	aggtgaaagt	tgaatgcata	atttaataca	agttttgttt	780
actgtttttg	ttagaaatga	aaaaactaga	tcaaaatgtc	ctgggcttag	attctaattt	840
gaccattgaa	ttatttttga	taaagacaaa	cccactggag	gtaggtaata	tcaacaattt	900
aaatgtttta	aaatttgccc	tgctgacaag	ttaatggtea	tttggaagtt	agagtttttg	960
tgctgagagg	ttgcttttga	tgattctgat	acacttgaga	gtcttttgta	aacctaatag	1020
ctttctggag	tttgtgtctt	tgacaaagt	tgcccttttt	gggttggggg	ttacttcgat	1080
tgcaggaaaa	acttaaacag	tttgaagagc	gattagcaga	agaaaggcat	aatcgattgg	1140
aagaacggaa	aaggcagcgt	aaagaagaac	gcaggataac	atactataaa	gaaaaaaaaa	1200
aaaaa						1205

<210> 176

<211> 1153

<212> DNA

<213> Homo sapiens

<400> 176

ggcacgagga	gcatcacccg	agaaacaaag	gctccagcct	ccggacacca	tgtctgtgcg	60
cttttcttct	acctccagga	gacttggtc	ttgcgggggc	actggctctg	tgaggctctc	120
tagtggggga	gcaggctttg	gggctggaaa	cacatgcggt	gtgccaggca	ttggaagtgg	180
cttctcttgt	gcttttgggg	gcagctcatc	tgcaggaggc	tatggcggag	gtctgggcgg	240
gggaagtgt	tctgtgtctg	ccttcacagg	gaatgagcac	ggcctcctct	ctggcaatga	300
gaaggtgacc	atgcagaacc	tcaacgaccg	cttggcctcc	tctctggaga	atgttcgagc	360
cctagaggag	gccaacgctg	acttgagca	gaagatcaag	ggtggatatga	gaaatttgga	420
cctggttctt	gccgtggcct	tgatcatgat	tacagcaaatt	atttcccaat	tattgacgaa	480
cttaaaaacc	aagtataatt	tctgcaacta	ccagtaatgc	ccatgttgct	ctgcaaatga	540
taatgcaaaa	ctaacagctg	atgacttcag	actaaagttt	gaaaacgagc	tagcgcttca	600
ccagagcgtg	gaggcggaca	tcaatagttt	gcgaagagtc	ctggatgagc	tgaccttggt	660
cagaacggac	ctggagatcc	agctggaaac	tctcagttag	gagctcgctt	acctcaagaa	720
gaatcatgag	gaggaaatga	aagctcttca	gtgcgcgggt	ggaggcaacg	tgaacgtgga	780
gatgaacgcg	gcccccgggg	tagacctcac	ggttctgctg	aacaatatgc	gagctgagta	840
cgaagccctc	gcagagcaga	accgcaggga	cgcggaggcc	tggttcaacg	aaaagagcgc	900
ctcgtgcag	cagcagatct	tcacgacgc	tgagattgaa	acctcagccc	ggaatgagct	960
taccgagatg	aaacgcactc	ttcaaacctt	tgagattgaa	cttcagtccc	tcttagcaac	1020
gaaacactcc	ctggagtgtc	ccttgacaga	gaccgagagt	aactactgtg	cacagctggc	1080
acagatccag	gctcagatcg	gggccctgga	ggagcagctg	caccaggtca	gaaccgagac	1140
cgagggccag	aag					1153

<210> 177

<211> 866

<212> DNA

<213> Homo sapiens

<400> 177

ggcacgagta	gagttcctct	ccattaaagg	gactggggga	tggcctctgt	gtttctttttg	60
ctttatcttg	agcttttttg	tcagcccttt	cctctacttt	tgggggcctg	caaaagcaga	120
ggggctttat	tttgagaagt	agcctcctgt	ataacctcgt	ttgagataga	tttgggccag	180
tttctggtgt	ctgtagcagt	cgggtttttt	ccccctaatt	cctgtctttt	cgtttctgtt	240
ttcttggtca	tttacatcat	ttcaagaact	agagaaaagt	gaaaaccagg	ttctggccat	300
gcggaagcag	tctgaggggc	tcaccaagga	gtacgaccgc	ttgctggagg	agcacgcaaa	360
gctgcaggct	gcagtagatg	gtcccattga	caagaaggaa	gagtaagggc	ctccttcctc	420
ccctgcctgc	agctggcttc	cacctggcac	gtgcctgctg	cttcctgaga	gcccggcctc	480
tccctccagt	acttctgttt	gtgcccttct	gcttccccca	ttcccttcca	cagctcatag	540
ctcgtcatct	cggcccttgt	ccacactctc	caagcacatt	acaggggacc	tgattgctac	600
acgttcagaa	tgcgtttgct	gtcactcctg	ttggcctggc	caggcctggc	acagccttgg	660
cttcacgccc	tgagcgtgga	gagcacgagt	tagttgtagt	ccggcttgcg	gtggggctga	720
cttctgtgtg	gtttgagccc	ctttttgttt	tgccctcttg	gtgttttctt	tgggtcccga	780
ggagggtggg	tggagcaggt	ggactggagt	ttctcttgag	ggcaataaaa	gttgtcatgg	840
tgaaaaaaaa	aaaaaaaaaa	aaaaaa				866

<210> 178
 <211> 1280
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1137)
 <223> n equals a,t,g, or c

<400> 178

gctcgtgccg	ctcgtgccgc	tctgtgccgt	cgtgccgctc	gtgccgctgt	tctatcctct	60
gcctcccatc	aggccctggt	tctttgttcc	tttggttaata	tcttgaattt	agtccctcca	120
tccttaatcc	ccccatccct	ccccatcatg	caaccagtgg	tttaatccat	gtaccaatag	180
gggctagtac	cacagaggcc	tctgtgtgtg	ccctcgtatc	ataccacctg	ttcctgtgga	240
gagggaaatga	ccggcactga	aggtacctta	caactggctc	atattatcag	aggaccttgg	300
tcctttctaa	atctctagtc	tctcttcata	tccttcacat	gggtgtttta	gatgtctctg	360
agaagccatc	aaggcaaaag	agaactttta	gttccttgtt	ccagcccgga	gttttgggaa	420
agaaagaaag	gaaaggtcac	agtgccttag	gattggaacc	ttcctgccct	tttggcttgc	480
agactgcctt	ctatcccaga	acagctgaga	aatctatgaa	gctgagattc	tgaaggaccc	540
agcttaggtt	cttccactta	ggcctcaatt	cccttccttt	tccaggggca	gccttagttc	600
ccatggccct	gaaacacaca	catttcccc	ttcctttccc	agaagccact	ggccccccat	660
agcaccaggt	gcctcctttt	tacaagtgga	agaactagga	tggctttcca	aagtcttcta	720
gaaatgaagt	tctttctctg	tgcagctttc	ccccttgag	caggagtga	gatgtttcat	780
tatcttgggc	ctgggaaacc	acttcccc	gcttctcct	ccccccacc	ccataggaac	840
aggatttggc	cttagcttct	gggcctatcg	gctgccttcc	ctctacttcc	taccacctct	900
tctgccttcc	tttgagctct	gttgggcttg	gggatcttag	ttttcttttg	tttatttccc	960
agctcatttt	tttcttctgg	tcagtttttt	taaggggggg	tgttgtggtt	ttttgttttt	1020
gttttgcttc	tgagaaagca	tttgcctttc	ttcctctccc	aacataacaa	tcgtggtaac	1080
agaatgcgac	tgctgattta	ccgatgtatt	taatgttaagt	aaaaaaagga	aaaaaanana	1140
aggaattcct	gcagcccggg	ggatccacta	gttctagagc	ggccgccacc	gcggtggagc	1200
tccagctttt	gttcccttta	gtgaggggta	atttcgagct	tggcgtaatc	atgggtcatag	1260
ctgtttcctg	tgtgaaattg					1280

<210> 179
 <211> 1275
 <212> DNA
 <213> Homo sapiens

<400> 179

gcaactagtg	acaagagctg	gtcgcaacac	ttagtaggaa	gcacagtggc	ataaggaaac	60
ctggactagt	ggggccttta	tatctaaaat	tatgtattat	tccttatak	cagaatctgt	120
aagtacgtta	tgactgctaa	tgacttttaa	agcaaaccat	ttaacgatct	ttctatggta	180
aaaactgtta	tttggggaca	tcaccagatg	atgtggacat	tcttgcaggt	attttggcat	240
accaggcaa	gctgtcattg	gtgtatat	cagttaacct	ctggagatga	tcgtaacagt	300
ttacagggcc	tttccatttg	ggatggatat	atcaagaggg	agacaaactg	gtccaaatca	360
ccagaaagaa	aatctcacag	caccgacttg	gcatctgtgt	taaaaaatag	caactatatt	420
taaaataaac	tgtacaacat	aaaaaattta	aattaaaaaa	tgcattaagc	aagttgcctt	480
tagaaatgtg	aagacatttt	aaaacactac	aagataatga	gcaagtctca	cctacataat	540
catggctcca	cagacgggtg	cagtccatgc	atccaccatt	tctcaacacc	tacaaagttt	600
taagatctgc	ttgggttcaga	tactgtccag	ccacagcagc	tccctctgct	gtagagagca	660
gcatattcag	ctttgccttt	ttatttcaga	tactgaatat	cctttggcaa	tttcagatat	720
cacagcaaaa	aaaaaaaaag	ttccaagtgt	ttttggcaat	catattgggtg	atagtgtttt	780
tgttactctt	agaatgttta	tgggtggaggt	gggaggatgg	cttgagccta	agagttcaag	840
aacagcctgg	gcaacagttg	agtgcctttg	tctctacaaa	aattaaaaaa	aattagctgg	900
gtgtgttgg	gtgcacccgt	agtcctggct	agctactcca	gaggctgagg	tggatcactt	960
gagcccagga	gtttgagact	gcagcaaac	atgattgtgc	cactgcactc	cagcctgggc	1020
aacagagacc	gtgtctcaaa	aaaaattgca	catataacag	ataaagtaat	gataaagtaa	1080
atacgtaaa	taaatgagta	attatgggac	attctaattc	ctcatcccct	atgtctttta	1140
gaatttaaaa	ttctcagttg	agaagggaaga	gtgtaataca	gaattgggta	aataaaacc	1200
tataagcttt	gaatttgaat	tggatatata	attggtaaaa	taaaaaccct	atgagctttg	1260

aaaaaaaaaa aaaaa

1275

<210> 180

<211> 1157

<212> DNA

<213> Homo sapiens

<400> 180

ccacgcgtcc	gcttggcatt	ggttttacctg	ccagggtgtga	tagcagcaat	tgtccaactt	60
cataatggaa	ccaagtataa	gaagttttcca	cattgggttg	ataagtggat	gttaacaaga	120
aagcagtttg	ggcttctcag	tttctttttt	gctgtactgc	atgcaattta	tagtctgtct	180
taccaaatga	ggcgatccta	cagatacaag	ttgctaaact	gggcatatca	acagggtccaa	240
caaaataaag	aagatgcctg	gattgagcat	gatgtttgga	gaatggagat	ttatgtgtct	300
ctgggaattg	tgggattggc	aatactggct	ctgttggctg	tgacatctat	tccatctgtg	360
agtgactctt	tgacatggag	agaattttcac	tatattcagg	taaataatat	ataaaataac	420
cctaagaggt	aatgtttttc	tttgtgttta	tgatatagaa	tatgttgact	ttaccccata	480
aaaaataaca	aatgtttttc	aacagcaaag	atcttatact	tgttccaatt	aataatgtgc	540
tctcctgttg	ttttccctat	tgtttcta	taggacaagt	gtttcctaga	cataaataaa	600
aggcattaaa	atattctttg	tttttttttt	ttgtttgttt	gttttttgtt	tgtttgtttg	660
tttttttgag	atgaagtctc	gctctgttgc	ccatgctgga	gtacagtggc	acgatctcgg	720
ctcactgcaa	cctgcgcctc	ctgggttcag	gcgattctct	tgccctcagc	tggccaatat	780
ggtgaaaccc	cgtctcaact	aaaaaaatac	aaagagtagc	cgggcgtggt	ggcatatgcc	840
tgtagtccca	gctgcttggg	aggctgaggg	aggagaatcg	cttgaacccg	ggatgcagag	900
gtggccatga	gccaggatca	caccattgca	ctcttgccctg	ggcgacagaa	ggagactcca	960
tctaagaaaa	aaaaaaaaatt	agcggggcat	gggtggcgggc	acctataatc	tcagctgtgt	1020
gggaggctga	ggcaggacta	ttgcttgaat	ccgggaggca	gaggttgcag	tgaaccaaga	1080
tcacaccact	gcactccagc	ctggggcgaca	gagtgcagact	tcattctcagg	aaaaaaaaaa	1140
aaaaaaaaaa	aaaaaagg					1157

<210> 181

<211> 1885

<212> DNA

<213> Homo sapiens

<400> 181

ggcacgagta	caagggtggcg	gcgctggggc	tggccaccgg	catcgtcttg	gtgctgctgc	60
tgctctgcct	ctaccgcgtg	ctatgcccgc	gcaactacgg	gcagctgggt	ggtggggccg	120
ggcggcggag	gcgcggggag	ctgccctgcg	acgactacgg	ctatgcgcca	cccagacgg	180
agatcgtgcc	gcttgtgctg	cgcggccacc	tcatggacat	cgagtgcctg	gccagcgacg	240
gcatgctgct	ggtgagctgc	tgcctggcag	gccacatctg	cgtgtgggac	gcgcagaccg	300
gggattgcct	aacgcgcatt	ccgcgcccag	gcaggcagcg	ccggggacag	tggcgtgggc	360
agcgggcttg	aggctcagga	gagctgggaa	cgactttcag	atggtgggaa	ggctgggtcca	420
gaggagcctg	gggacagccc	tcccctgaga	caccgcccc	ggggccctcc	gccgccttc	480
ctcttcgggg	accagcctga	cctcacctgc	ttaattgaca	ccaacttttc	agcgcagcct	540
cggctctcac	agcccactca	gcccagagccc	cggcaccggg	cggctctgtg	ccgctctcgg	600
gactccccag	gctatgactt	cagctgcctg	gtgcagcggg	tgtaccagga	ggaggggctg	660
gcggccgtct	gcacaccagc	cctgcgccc	ccctcgccctg	ggccgggtgt	gtcccaggcc	720
cctgaggacg	aggggtggctc	ccccgagaaa	ggctccccctt	ccctcgccctg	ggcccccagt	780
gccgagggtt	ccatctggag	cttggagctg	cagggcaacc	tcattcgtgt	ggggcggagc	840
agcggccggc	tggaggtgtg	ggacgccatt	gaaggggtgc	tgtgctgcag	cagcgaggag	900
gtctcctcag	gcattaccgc	tctggtgttc	ttggacaaaa	ggattgtggc	tgcacggctc	960
aacggttccc	ttgatttctt	ctccttggag	acccacactg	ccctcagccc	cctgcagttt	1020
agagggaccc	cagggcgggg	cagttcccc	gcctctccag	tgtacagcag	cagcgacaca	1080
gtggcctgtc	acctgaccca	cacagtgcct	tgtgcacacc	aaaaacccat	cacagccctg	1140
aaagccgctg	ctgggcgctt	ggtgactggg	agccaagacc	acacactgag	agtgttccgt	1200
ctggaggact	cgtgctgcct	cttcaccctt	cagggccact	caggggccat	cacgaccgtg	1260
tacattgacc	agaccatggt	gctggccagt	ggaggacaag	atggggccat	ctgcctgttg	1320
gatgtactga	ctggcagccg	ggtcagccat	gtgtttgtct	accgtgggga	tgtcacctcc	1380
cttacctgta	ccacctctctg	tgtcatcagc	agtggccttg	atgacctcat	cagcatctgg	1440
gaccgcagca	caggcatcaa	gttctactcc	attcagcagg	acctgggctg	tgggtgaagc	1500
ttgggtgtca	tctcagacaa	cctgctgggtg	actggcgggc	agggctgtgt	ctccttttgg	1560

gacctaaact	acgggggacct	gttacagaca	gtctacctgg	ggaagaacag	tgaggcccg	1620
cctgcccgc	agatcctggt	gctggacaac	gctgccattg	tctgcaactt	tggcagtgg	1680
ctcagcctgg	tgtatgtgcc	ctctgtgctg	gagaagctgg	actgagcgca	gggcctcctt	1740
gcccaggcag	gaggctgggg	tgctgtgtgg	gggccaatgc	actgaacctg	gacttggggg	1800
aaagagccga	gtatcttcca	gccgctgcct	cctgactgta	ataatattaa	acttttttaa	1860
aaaacccaaa	aaaaaaaaaa	aaaaa				1885

<210> 182

<211> 1031

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1024)

<223> n equals a,t,g, or c

<400> 182

acagcatgag	catgagctgt	ccctggttgg	gcacctgggc	agtgggtctgt	gcttcaccta	60
gacaaagaaa	tgacagtcaa	ggaacagatg	ctaggggagg	aaacagagct	gaccagaggt	120
tacctgggca	caagaggaat	ctggaagagc	gcacacctgc	tgagcaaacc	taaggcagtg	180
acatcagggg	ggaaaaaaga	atacatatgc	ttattgttag	tgttcaccaa	aaaagggtca	240
cagtgcgttg	ctctaaaagy	tcagtttagct	tctctaacac	aaggtagata	cagtgtgaag	300
tgccaaactc	agttttccata	aaacttttta	caagcatgta	agttccttat	tgactttttc	360
aaaagaaatt	catgtaggaa	atgcataccta	actcattcta	tgatgccagc	attmccctga	420
tactaaagcc	agccaaagac	actaaaagta	aagaaaaactg	tagagcaata	tcccttatga	480
aggttgatgc	caaaatcatc	aacwaaatac	tagcaaatca	aattcagtag	caggctgaaa	540
ggattataca	ccctgaccaa	gtacagtttg	ttcctggaat	gcaaggatgg	ttcgacacat	600
gaaaactgat	cagtgtaaac	agaatgaagg	gggaaaaaca	catgatcatc	tcaattgatg	660
ccaaaawaaa	agcatttgac	aaaattcaac	atctttcatg	atgaaagcac	tcaatatact	720
agaaatagaa	ggaaactacc	tcaacataat	aaaagttata	tgaaaaatct	acagcaataa	780
tcatactcaa	tggaacaaaa	actgaaatct	tctcatctaa	aatcaggaac	aaggcaataa	840
tgcccacttc	tattcaacat	attactggaa	gttctagcta	gagcaattgg	acaagaaaaa	900
gtggggggg	ggggagaaga	ggcatccaaa	ctggaaagga	agaagtaaaa	ttatctctat	960
tcccagatga	tgtgatctta	tatgcagaaa	accctaacag	ttccacaaaa	aaaaaaaaaa	1020
aaanactcga	g					1031

<210> 183

<211> 2735

<212> DNA

<213> Homo sapiens

<400> 183

agtaggaaaag	gcttctcaga	aaaaaaaaaa	aaaagtatatg	gctgaattta	gctcagtgtc	60
tgaaatggga	agatatgaat	tattatatac	gcatctgtcc	acacatacac	acatactgtt	120
gtgtacacac	acacaacatg	cctgtgcaca	gagccaacaa	cccttcaaaa	gtgtgctctg	180
ggtgtgtacc	tctggataaa	taagatgcat	gccargccaa	cccacagatt	ttcaccagtg	240
tggggcagtc	accaggcacc	tgttcaatga	gctgtccaca	tggtattgaag	atgtttttaa	300
aacacagaaa	actcatggct	tcaatggcag	acttactagt	ctccatttca	aatgccaaact	360
ctgagctgct	gtacagcaca	atctattccc	tattctctct	ttgaaaacag	ttaaccacc	420
tcacaggtga	atgargagag	aagatgtgct	ttctgcttca	gtctcttact	ctgtgtgtga	480
ccacatgcaa	gagtaaaact	gcacctcagt	gcttcagttc	aaatgggggt	tccaacccca	540
gtataattag	gggtgtttca	gagcatcccc	agttatttag	cacaacactg	aaggagcaca	600
tcccctctcc	atthttgact	ctctccccac	ttttacagcc	actgccttca	tcagtthttgt	660
agaggthttga	tttccatgtg	ggthttgttg	tcattgtttt	gcattthttgt	tttgttattg	720
atattgtttg	ctthtcattgc	taaaactcat	atacgactta	ctatgagcca	agcactgttc	780
tcagtattac	ataggtatga	attcatttaa	gtcctgaaga	aaaagaaaaa	aaaatacgaa	840
gtggatatta	cccttcccat	tttcaaataa	ggaaactgaa	gcacaaaaag	aacaagtaac	900
ttgacaagga	caccccggtg	gtaaatcatg	gggctggagc	tcaaccaccg	ggtaggctgg	960
ctccagagct	gtgctctcct	tgactctctc	gatggctctc	tagctggaag	cctcacattt	1020
cagtctcatt	cccccaagtg	gcccatacgc	tactccatct	ctggctcccc	aactaaacag	1080

09500560 "04201"

tttctctcat	agtgetggac	ctccactcac	tagttttttt	tccagctggt	cttctctttt	1140
cttcagggtca	ctcttctcga	ccgagtgcaa	aaattatccc	ctccatacca	gctttgatga	1200
ccttccttcc	atactcctca	ccagacacaa	cataataggt	cacacactcc	tctgtgcttt	1260
ctggcacggt	ttaaacatta	ttattattga	cctttaccta	tagtatacca	tggcctattt	1320
atgtatccat	ctcccctagc	atttttcctc	aaagacaaga	accatgtctt	acccatctct	1380
tgggtaagt	cctagcatgg	tggctgacgc	ttgggagggg	gtcattaaat	gttgetcaaa	1440
agaacaagca	aacatttaag	gtgggtggaga	gcagcctggg	gacagctgac	atgctgcatg	1500
cttctcagta	ccagcaccat	cacaatgcaa	aaagcaacat	ctttcttaac	ctcagcttat	1560
tctgtttttc	agtctactct	gtgagagagc	aggaatgaga	ccagactagc	aacaccattg	1620
ccaagctcaa	ggactgggct	caatgcagtc	actccttcag	agagaccccc	caccccaagc	1680
atgccccact	ttaaaatagc	atgtttattg	aagggggcat	cctttacagt	agctagaaaa	1740
tgactgaggc	ccaagccagg	gttgatcaag	gatgtgccat	taaggtaaag	agttacagag	1800
cagggcagag	ggactctggg	ggcagaagt	gatgatttgc	ccggcctctt	ccaggggggtc	1860
tggatacaac	tgaaggagct	ttagctacat	gaggccctca	gagccaaaga	caggatgcaa	1920
atagagttct	agagagtggc	cgtggaagca	gaactccagg	tggggaatgt	tcaatctctg	1980
scctcccttaa	agcagggcca	ggctcagctg	gccccattgt	tcacttggtc	acaagtttcc	2040
tacttttgtt	tctggatgag	tcaaaggcca	ggaaggcagt	tatggagagc	tcctgcacct	2100
ccagctgccc	cacagaaaag	cctgcaagag	tacttccagg	cacaggccct	ctcccacct	2160
attccatttg	taagcaagg	aggtcgagga	aaaggacatc	tccaaaagg	agcataagaa	2220
tagccatata	tacaggggct	gaaaaagtc	tcatgagtc	atcttttctg	gaaagcaaag	2280
accagcctga	agcagtggga	gctgctgccc	aagcggtagt	gaactggaga	gaaacaggcc	2340
ctggattttc	agtgaggatg	tggatctgaa	gagtcctcca	aatgcctctg	aagtctgaca	2400
tctctgctta	gccctaggag	tctggttccc	tgcttctcagt	tgagagtgta	tgtgtttgtg	2460
tcattgttga	tgtcacctcc	taaaaagacc	ttcactttct	ggctgccaca	aagccatatg	2520
tgttgctccc	catatacagc	ctgacagagt	aaatggagag	gaagtgctgg	atttgtgtat	2580
cactggctat	cagttcctca	tgttggttaag	cctcacacag	gtgtgctagc	attgaactgt	2640
agagtgtcac	atacctgagt	ttgaaaataa	aagcacattt	ccaaaaaaa	aaaaaaaaa	2700
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaact	cgtag			2735

<210> 184

<211> 2644

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (428)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (430)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (433)

<223> n equals a,t,g, or c

<400> 184

gctttaatcc	acataataac	cctatgggat	agataactga	ggaacagaga	ggtaggtaa	60
tttgtctaas	atcacagagc	tagggaatga	tggcaccaka	gtttraactg	catactgact	120
ccagcaactt	ctggggaaaa	tcacactcag	tggtttgtag	taagatttgg	atttagggg	180
taaacagtac	taacagagag	ttacagaact	ttgtacttct	ctcatctgct	atttagttca	240
ttggacttga	actatgggct	aggagagtga	gaatggatct	tggagattat	ctagttagca	300
gcccttatag	ttcatggaac	taagaccag	gctgtgcagt	agcctgttca	gggatatgca	360
tatgggaaaa	gctcaagcca	gaatggagtg	cttttttact	gaagaattct	aaaatgtttc	420
tgcttcanan	aanatcctct	ctctgtcctt	tttccccctt	tttctccttg	tcttctctcc	480
ctttttattt	atggtgctat	catgtgttag	aacaacaata	atagaaagta	catggaaaag	540
atcacttaaa	atcctaccac	accatgtttt	aaactatttt	catgtattgc	tgatttctga	600
atctgttatc	ttgttagatt	atgacattga	tttaagtttc	atagctcaaa	tatggaacct	660

0950032-091201

ctataaagaa	gttccagggg	gtggaaaggg	aagggaaagg	aattgctggt	atttattaag	720
agcctactgt	ctgtcagtc	ctctgcctac	ctgctgtctc	tgatgtctca	aacttccttc	780
ccactttatg	ggattctgta	ggaggaccag	cacaatacc	tgacaaaagt	gagcattctg	840
caaaccta	gaacgaggaa	atgaatgaaa	ggaagtgcct	tgaattcagc	agaagaaaga	900
gataacaatc	atgtgcgaac	tactcccagc	tattgcctat	tgactgttag	ctttcagttc	960
atttttgtac	aatttaacca	ttgaggcaaa	tgtgtataca	ggatmccatg	gaatgctggt	1020
tacaggata	gattttgggc	tkgtactttt	gaagcagctg	aatmctgata	aggcctgtgt	1080
ccagaaacta	tttttttcc	tcattttaatc	aggtttcctt	acttccttga	ccacaaatat	1140
tatttgctaa	ggaaattttc	tctttgggg	ggtatttamc	catgcaagt	gggaaaattg	1200
tgctacgata	ctgttctgac	agcctgtgga	cttgaggaaa	aaactgcagg	agcagagttt	1260
cctttcagca	gtcaactata	ggctcagtc	cttcttgaca	aaacataagt	taaaatagtg	1320
ctgatttctt	tttgaacata	atcaattcta	atggaaactg	ttccagctga	gtttggaaac	1380
acacagaagc	agccttcagt	taccattgag	gctattattg	ccctagtaat	accaaagaga	1440
ctctttcagc	ctacttattt	gtattggatg	cttgtagggc	tatttcatgg	ggacctggtg	1500
ttgactctca	gtgacttcca	ctttgactct	gagatttatc	ttcaaagtct	gatgcattct	1560
aagatttata	gaagtacaaa	cttatcttat	tattgcta	ttgtcccatt	actagactat	1620
gccccttaga	gttataatta	tgactagccc	aattacattt	tattgtcgtg	cccttttttg	1680
gcaaaaaata	aaattttctt	gttaaactca	aggatttaaa	atttagcaca	agttcataaa	1740
cttactttga	tactttctca	tttcctttt	aaaaatacat	cagtagactc	aaaatgtaaa	1800
agtggcctag	ggctcacttg	acctctgaaa	ggtggctgac	tgacttttag	ttaaaaacaa	1860
tatttgtcta	tatatctctg	tcactatatt	gtggctacta	tgtgttgaaa	ctttgtggaa	1920
cagatatctt	tctcccttct	tcttccctcc	tctctgcca	aaagacacac	acacaaacac	1980
acacatgtac	acacagagac	ttgaaggctt	ttgtgtacat	ttaccaacta	ctacaacaac	2040
aagaaatgaa	gaacaatata	gctcaactct	gtaaatctag	aatggggaat	ctattyccca	2100
aaggctgtat	gcagtatctt	ttcagcgagt	catggtagcc	tccaacaact	agtagcactc	2160
tttgtgcatg	aggatatttc	tgactaaaaa	tccacctttg	ttgataakgt	ttgttcactg	2220
taaaggaatt	gagtggataa	aagagggtata	cactttcctt	tctatatcaa	ggaagggtgga	2280
atattcaa	agaacactct	atgtgtgcac	acgtgcacat	ggacgtgagt	gagagatgat	2340
ttatagatat	agaagagtc	tactgtattc	ttttaagagg	tattcagcaa	ctatttgttg	2400
aataccttct	gtgtgtttat	cactatgctg	agttcctggt	gagaggggaa	tgagtgtaaa	2460
gcagggatgt	taycactatg	ctgagttcct	ggtgagaggg	gaatgagtgt	aaagcagggg	2520
tgtccaatct	tttggccttc	ctgggccaca	ctggaagaag	aaatctcttg	taccatacat	2580
aaaatacat	taacactaat	gatacctgat	gagaaaaaaa	aaaaaaaaaa	aaaaaaaaac	2640
tcga						2644

<210> 185
 <211> 3115
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (519)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (558)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2101)
 <223> n equals a,t,g, or c

<400> 185						
ggttatgggt	atgatgtgct	ggctctcctc	tctggataag	atgggcaaca	gtgttaaggg	60
aattcacttt	tgtcacgac	ttgtttctct	gtgtaatttc	cataactatg	ataatttgag	120
acactttgca	aaaaaacttg	atcctcgaag	agaagggtgt	gatcaaaggg	taaagtcagt	180
gataaatctt	ttgtttgctg	catatactgg	agatgtgtct	gcacttcgaa	gatttgcttt	240
gtcagctatg	gacatggaac	agcgggacta	tgattctaga	acagcactcc	atgtagctgc	300

gatggagggtc	taaattacct	ccagggtttt	tctggggggtt	tatcaccagt	gtgggtccct	480
tctgatacca	ccagggttcac	tccaggcaga	gtggggcgga	aggctgctga	ggatatgggt	540
cagttacagc	agccctcacc	tcaaagggct	ggcctgcttc	tcagcctaca	ttcatttgca	600
agcttcaatc	tctggaccat	ctggtgttca	cagggtgttag	agggttaggg	gttaggggcc	660
agttttggat	ttgattcata	ggtaggaggg	cttagatttt	aaggcacttc	tgaaagtcaa	720
tccctggaca	aggcagtcac	cacataagaa	cagctacett	ctccacttgg	tggcacaaga	780
ggtagggagg	ggagtatggg	ttcatttggc	ttcgcattat	gcaagggtgaa	accgtttgtt	840
ttccctctcc	attttcccta	actaaatgaa	aaggacacat	tctgaaatcc	cttttgttgg	900
agaataagtc	agtctgaggg	gaaatgggag	gccagagatg	agaacccttt	gaaaagattg	960
taaaatactg	attttcattc	tttcaagctt	atttgtaaat	acctatttga	atgctgtgta	1020
tttgtacagg	aatttgagca	aaaaatgtat	agagtgtgat	gtccaattgg	tattcagcac	1080
tataaatgtg	tttttaacct	cccgcattct	gtgcittattt	aaaacaagga	aacttctaac	1140
catttctttt	gtgtattcat	gtttaaagaa	aaaaagtgat	ttaaaaatga	tcttacctgt	1200
accagaaaag	caaagttaaa	ggaaacaaaa	tttgtaccat	tgtcccaaga	ggtattttac	1260
tgtatatatt	gtggtagcat	gttcaaaatc	caacaagtaa	tgtgaatttt	agatgtaaat	1320
atctgccact	tgattttttt	tccccctttc	cccacttcct	tgactgctgt	gatgtgaatt	1380
aaagataaat	acgtgatact	gaaaaaaaaa	aaaaaaaaaa			1419

<210> 187

<211> 1941

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (499)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (558)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1890)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1938)

<223> n equals a,t,g, or c

<400> 187

cagtatccaa	ccatcctctc	cattctctctc	tggacctcac	cactctcaga	gctgcttgct	60
ctggcagaat	ctacarttca	ccccactct	atgccttacc	cctcccaacc	caacagcatt	120
tgcagtttgc	aaaatataca	gacccaagtc	ctgaggggac	tgaggacatg	atgctgggcc	180
caagtctcct	gctcaggget	tctctccaat	gccagccctg	ccactccttc	ctcaccctcc	240
ttggagcctc	ctctgctgct	tgtctatccc	aacggccctg	ctccccctcc	ttcctgccct	300
tcaccagctt	tctggacacc	akgcmswgrg	raagggacct	ttggtttttyt	ctaaacatct	360
ttraagggct	gaggcagtc	gggctggctg	ccttgtmact	ctttatttgg	aagccactca	420
aaccattccc	aagaagaggg	aacctcasct	ggcaatctgg	gaaacctggc	ccaggctctgg	480
gcmgatgtyt	tcacttctnc	ctaccttccc	agttcttgtg	aatcctgtga	atgagcacca	540
ggatgggccc	tgtgggtnc	ctagaagcac	cccttcatgg	ctgtagggct	ctgcagcccc	600
atcctttctc	tactgggccc	tggatctctg	gctcctctct	cagctctgcc	actgatctct	660
gtgccttagt	ttacttctct	gcacggggga	ctcaccceaa	gaccatttcc	agcagcttcc	720
cagggtgatgt	ggtgccccaa	ggctgggctt	tgccagctgt	ggcccagctc	cttagtgctg	780
cccaggagac	accaggctgc	tcagaatgag	gtgactgcgg	gcaccattct	cagccagtgg	840
ttcttgtatt	gcattccagc	agcaggaata	tcacctggga	acttgataga	agtgcagatt	900
agcagcccca	cccaagaccc	actgaattag	agcttggtgga	gtggggccct	acaagctggg	960
gttttaagga	gccctccaaa	tgattctgac	gcataagaat	atgccaaactg	ctgatctggg	1020

09950080 0121

ctagccatta	gtagagcctg	gggaggggact	gggactggct	aggccaagaa	caggtggaaa	1080
acaccagcct	tatctggact	cctgagattg	ggaaccacca	ccaacaaaaa	ccaaccctat	1140
agtcgctcct	cttggaagag	gaagagaagt	tgaagggcct	ggagaaagca	cacattgttt	1200
gtttccctgc	tcctgctcac	ctctctcact	tgtcttggtt	ttacaaaagg	ctgtgtggat	1260
ggtgccagcc	agggaggggg	tgggagtcct	ggggaggcag	gaggcagaag	accctgactg	1320
tttctccctt	gggaacctca	ccataggcca	gatagcgcct	cttcaaactg	aaagaaatct	1380
taacttcaca	aagaaagcat	cctaaatccc	cagttcctcc	tcctcccaac	cccagggata	1440
ccttgtagac	agtgccaaaa	aacagctcca	acccccagca	gctgggaaga	gagccagaag	1500
ctgcccttcc	tcctcctcct	ggccctctcc	cagccccgcg	caatactgtg	aaccccttc	1560
ccactcagcc	tggtttctctg	gtgagggtcc	tgcagtcatg	ggccctgggg	gacccccagg	1620
caaggcccat	gggaggggaag	ggaccaaggg	catccttggg	ccaactgtcc	acctctcttg	1680
tccactattc	tctcctttcc	acttctgtct	tcaaaaggct	ccttcctagg	atggatcggg	1740
tgctaggaca	actgcagtc	aatccaccag	ctctccctgc	ccctgtgtct	tatttcagac	1800
atgagaataa	ctgtacagtg	taaacttata	aagcgttttt	aatggttgta	gattggaaat	1860
aaagtatgtc	atatgaacag	ctgctgtggn	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1920
aaaaaaaaaa	aaaaaaangg	a				1941

<210> 188
 <211> 820
 <212> DNA
 <213> Homo sapiens

<400> 188						
ggcacgagat	taattacagt	ttaagccaaa	gcatgagtgg	ctttttaaag	tgcattctgtg	60
gaggggatgt	ggcaggtagc	ccctgttcac	ttgctgtaag	ataagtgttt	tagtatttca	120
gccaccctta	ggcacaactc	agccaggcct	aggaagcaac	ccaacgtcat	tgccatgaac	180
cattttacaca	agtcacacca	aaatcaactg	acacattttt	ttcctgatgg	aacagttaaa	240
aaaacaaaaa	actatacagt	caaagtctgg	ggttgaagag	cgtgaagtcc	acagctcctc	300
cacacacgcc	caactgagca	tgctcctcct	gtgaggggga	accagagcct	tcctgtaaac	360
catgagagct	taccaatgtc	tgggtatacaa	aatatctctg	cccataaact	caacctgttt	420
ttgaggggta	ggggattttc	catcttgtac	ataaagaaaag	aaatctgggt	atccttcagg	480
ttagaaaggc	attctgtgaag	aatagtgttc	cagagttaca	aatcatactg	gtaagagaaa	540
agcaattctt	cctcttgggg	aaaaagagga	aaagaaaagaa	gaaaagagaa	aaaagaaaaa	600
agggggaaaa	aagaaagcct	atcaatgctt	aactctgttct	ttcattccca	ctgtaaatca	660
catcaataca	tttgggtgaaa	ctgcaacgga	ccaccattta	caaggtagtt	gaatgcagaa	720
accgaaacga	ttatgcccc	tccccactct	aaaggaaaag	acacagagta	catttcacat	780
attcagagag	tggctcagtg	ggctctttca	agcggcacga			820

<210> 189
 <211> 1236
 <212> DNA
 <213> Homo sapiens

<400> 189						
ggcacgagaa	tgaacaaca	gatatgtgtg	actccactgt	tagaggactc	tgggaagctta	60
tacctgggtt	ccccagact	ttgcctctgt	accttttctc	tttgctgttt	tgcttcatat	120
gcttttgctg	taataaatca	tagctgtgtg	atgatatgct	gagtcttgtg	aattctccta	180
gcaaatcatg	gaacctggag	gtagtcttgg	agaccctggc	atacaaagca	gttcctaagt	240
gtttactggg	agctgtagga	ataggcaaa	agaaaacagc	aaagaaaaag	gcacactgtg	300
gtataacttt	ggaggtttac	cttgcaaaat	gctcagatat	ttaacctatc	agaggttatt	360
gtgcatataa	aagagagtga	tatactaaca	actgcctcag	gatatactct	ttttaatcag	420
tattgttaact	aaccttggct	tatttctact	ttagacttgg	ggttctatct	tgctttaaaa	480
catgtacatc	agttttgttt	tttgttttgt	tcttttcttt	tctttttttt	tttttttttt	540
ttaaagacag	gatctcactc	tgtcaccacg	gttgctgaga	gtgtgggtgtg	gcccgatctt	600
gacctcactg	cagccttgac	ctctcaggct	caagtgatcc	tcccacctca	gcctcccaag	660
tagctgggac	tataggcacg	cgccaccacg	cctgggcta	ttttgtatct	tctgtagaga	720
cagagttttg	ccatgttgtt	gaggctgggt	ttgaactcct	gggttcagac	gaccctcccg	780
cctcagcctc	cgaaagtgtc	gggagtacag	gtgttagcca	ctgcgcctgg	cctcattgta	840
ctccttaaca	caagaagact	tcaacaatga	taagttagtt	tttataagga	agcaggatca	900
ttaccaaata	aaatcctgct	aaaacaacag	gaatcatgtt	ttaaagccta	gtttgcta	960
ttttgctagt	aggataagag	tgatcgta	atctcgaaca	ttacatagac	acttaaaacc	1020

tttagttgta	tttcatcaaa	aatctgttca	tacccacgt	tggtttcaaa	acatactatg	1080
ctttttcttc	gtgttatttc	ctatatcat	ttttgtgtgt	atgtgtatgt	cacaaatatt	1140
gatatgcctg	gttgtttatt	tttgttttct	attatgcctt	tttcaaaata	taaaaataaa	1200
cttgtaattt	ctaactaaaa	aaaaaaaaaa	aaaaaa			1236

<210> 190

<211> 1233

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (637)

<223> n equals a,t,g, or c

<400> 190

gaaaggcctc	cttggcattg	gctctggctc	taaggcattt	tatggtagag	aactggctga	60
aagacttctc	ttacatccgc	cagcattact	tatggaagct	gtataccatt	atttcttact	120
gctgcttttg	gaaatatttt	ctgagtactt	aatacttcat	tttctcttga	gctttgccat	180
tgaatttttt	attccaatga	ttacatctta	atattttcat	tttcttcac	tttctatttt	240
ttcttagtaa	ctttctgtcc	tggtttcaaa	gattcagttc	cctcctttat	ttcagtgagc	300
atttgaacat	acttatttta	cagtttatta	kggattactg	tagctccatt	tcttcacagg	360
taactttttc	agttttaga	ttcttagctg	tttttcttgg	catgcagccc	ccagtgagtt	420
agcaattcaa	atttttagtgt	tcactctgta	tgggagtttt	atatgatccc	ttccctgtga	480
agcagtttca	tggttccttc	acactggmtg	ttcacagtct	ctgctttcag	accaggcctt	540
acatacacag	attgctctat	gctttcactc	tgtgtatatg	cacaattctg	ggtccctctt	600
ctatgtccct	tatctgctag	gtcttgggtc	tatagangaa	caatttctgt	ttttggcaag	660
ctagacytgt	ctgcctgcag	tgctatgtga	tggatgcagc	tctttaatct	cytgctcctg	720
tgtagacagt	attaccccaa	ttcccagctt	tatgctggat	gtttaagttc	agcaccttac	780
cactctgttg	ggtgctgaga	atttagtcct	aaaaacccat	atccagactg	ggccctactt	840
accacttttg	ttttcctttc	tgcttctctt	gttttgacta	cagatctgaa	tatttattat	900
taatatttcc	tttttttttg	gagtggtatg	agagggtttg	gctatgctca	gccttctatc	960
tcgaccctag	aagtagaaaa	atagctttta	aatccactac	aaagagcttt	tacttatata	1020
aggttaatag	gtggtagaca	gtctttgaca	tggggtgaaa	aaatctaaaa	gttataaaaa	1080
taaaaccaac	ttggctgggc	atggtggctc	atgcctgtaa	tcccagcact	ttgggatgct	1140
gaggcagaag	gatcacttga	gtccaggagt	ttgagaccag	cctggacgac	atagtgagat	1200
ctcatctcta	aaaaaaaaaa	aaaaaaactc	gga			1233

<210> 191

<211> 1520

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1507)

<223> n equals a,t,g, or c

<400> 191

cacctcgcat	tctctctgtg	ttacgtgttg	gtgggttctca	cgatctttca	gactttttta	60
ttgttatgac	acctgtttaca	gtgatctgtg	atcagcgatc	ctccatgtta	gcattgtcat	120
tgttttgggc	accacagacc	ggaccgggca	accttcatct	atgaacgttg	tgtgttcttg	180
ctgttccgcc	caccagcctt	tcccagcctc	tctcttctcc	ccgctccagc	ctccctattc	240
cgagacacaa	aaatatccaa	gttagtccag	tgagtaacct	tacagtggcc	tcgaggtgtg	300
cgtctgtcac	tttaaataca	aagctagaaa	tggttcagtt	tagcccgggc	tcggtggctc	360
acgcctgtaa	tcccagcact	ttgggaggcc	gaggcgggca	gatcacgagg	tcaggagtgc	420
aagaccagcc	tggccaacat	ggtgaaacct	catcgctact	aaaaatagag	aaattggccg	480
ggcgtggtgg	cgggcgcctg	tagttccagc	tactcaggag	tctgaggtgg	gagactcact	540
tgaacctggg	aggcagaggt	tgcaagtgag	tgagattgtg	ccgctgcact	ccagcctggg	600
tgatagagac	tgtctagaaa	agaaagaaa	agggagagas	agaaggaaga	gagagagaga	660
gagagaaaaa	aaaaaagaaa	tgatttagtg	tagtgaggaa	ggcttgttga	aagccaagat	720

aggctggaag	cggagcctct	cctaccagtt	agccaaattg	tgaacacaca	ggaaaagtgt	780
tttaaggaaa	ttcaaagtgc	ttctccagtg	aacacaagaa	tgataaggga	aacagcccca	840
ctgctgatat	ggagaaagtt	tgagtggctg	gataaaagatc	aaaccagcca	caacgttccc	900
ctgagccgga	gcccattcca	gagcaaggcc	ctcgactctct	gcaagtctgt	gaaggctgag	960
agaggtgagg	aagctgcaga	ggaaagtttg	aagctggcag	agatttgttc	atgaggggtc	1020
aggaaagaag	ccgctttcat	aacagaaaaa	ggcaaagtga	agcagcaagt	acggayssag	1080
aagctgcggc	ccagttgtgc	agaagatgta	gcaaagactg	taaaggaagg	tcaccgcact	1140
aaacatcaga	tttttgccca	ggcgcggtgc	tcacgcctgt	aatcccagca	ctgtgggagg	1200
ccgaggtggg	tggatcactt	gaggtcagga	gttcaagatc	agcctggcct	acatggtgaa	1260
accctgtctt	tactaaaaat	acaaaaatca	gccaggcctg	gtggtgcaca	tctgtaatcc	1320
cagctactca	ggaggctgag	gcaagagaat	cacttgaacc	tgggaggtgg	aggcaagaga	1380
atcacttgaa	cctgggaggt	ggagcttgac	agtgagctga	gatcgcgcca	ttgactcca	1440
gcctgggcaa	cagagccaga	ccctatttca	aacctcgtgc	cgaattcgat	atcaagctta	1500
tcgatanycg	tcgacctcga					1520

<210> 192

<211> 1379

<212> DNA

<213> Homo sapiens

<400> 192

ggcacgaggc	accactgaaa	ttccctgtca	agtcccctgg	ttagtgtcta	attagtggtg	60
ggcttttagga	agtgggacaa	cacatttaca	tttttgcagg	ctgttacctg	aacgtgatcg	120
ctgaataagc	tcagctgttc	aaatagtaat	gctgcataca	atgagaaatg	tgagaggggtg	180
tgtgtgtgta	tgtgtgtgtg	tgtgtgtgtg	tgtgagtga	ggccatttgt	taaatggaac	240
acctaaaaat	accattgttt	ttgtttttgc	ggttgtcagg	ggcctcaata	aatgcaagct	300
ggctcaggag	atgcttgacc	tgagaggtct	ggaaaagacca	gattagaagt	ctcagcagag	360
gaccaaacc	agacccact	tctgcagaag	ttctgtaccc	aggtttcccc	actgcaggca	420
taaccagcag	cccctcaaag	gccccagacc	agccaactgt	ctttagaaat	gcagaccag	480
gatcagcttt	gctaccagcc	atggaatctt	gggtcagtg	cccatactct	gagctgtgtt	540
tccacagtgc	aaggctggcc	ggacagtgtt	ttatttcaga	gttctcctgt	ctgtggcatc	600
ttcagaagtt	aaagatttgc	ttgaccacta	taagggtgcc	tgggagtgt	gacctccac	660
atcccagctg	cctggctggc	agtgggtggg	gagtaagcag	tagagagagg	acaggtggcc	720
cggaatctaa	cagcttgcc	ctggattctc	cctagtaagc	ttggaatgat	gctggagcag	780
ctctgggccc	aggggaccag	tctaaggctg	gacgcaaaag	actgggccc	acctagtctg	840
ttcatcaggt	attaaatgcc	ctgagttttc	aaagctctgg	tgattcagta	gtggacgggt	900
aagggtcctg	cctctcctgg	ggcttaccgt	ccaggggtgg	ggaggacgtc	actatatgaa	960
attatcttat	ttatagctta	atgtcattat	ttaaaaagg	ggagggaatc	acttgacggg	1020
tgggcaaggt	ggggacgggg	ttggatggaa	tgggtcaaaaa	aggtctttca	gagttcttcc	1080
aatcctgaac	taactcacct	gcacccttgg	cccaatcatt	ttcactccc	agggctctgca	1140
ctcctcgttt	ctacattcta	ggaagaaaa	gggttgacc	ctccccctct	taagctgggt	1200
tgggtccgaa	tcccgtgctt	ctttcacttc	ctgagccggg	ctggctgggt	gggaacaggc	1260
tccttgccgc	ctccccagcg	ctggcacta	ccacactgcc	gcccgcctgg	gcctcctttc	1320
aacctcgtgg	tggagccctg	cggtttccca	gcggagccgg	gcccggggct	gctcgtgcc	1379

<210> 193

<211> 1001

<212> DNA

<213> Homo sapiens

<400> 193

ggcacgagca	tgggtgtctga	tagtgggtca	atttcagttt	tttttaaatt	gtttctgagg	60
cgtgtttcaa	atatttgact	ttttcccaact	gggtctgaata	gtgcttctca	gatacggcaa	120
gtctctaggt	ttgcatgagt	cagcctctgt	gccctctgtt	cttttcccc	gatgttcttt	180
ttgcttcttc	ttatgctatt	accacactgt	cttaattact	atattttatt	aacaaatctc	240
actttctgg	agaccatttc	cttcacctac	ttcttcactt	tccttcagga	atgtcttgga	300
tattgttaact	cttttcctta	tgatttagca	tcagcttgac	aagttaata	aaccttggtta	360
ggactgagat	aaaattagaa	agattggaca	tctttaagg	actgagttct	cctagccagg	420
aatgtggcac	gtttccctat	ttcttttaggg	aattgtaaaa	tgtcttttta	taaagtttta	480
taattttccc	catagagatc	tttaaaatat	ttgttagat	ttattcctag	caccttatat	540
attttgttac	tcttgtaaaa	agtatccttt	tttttttttt	tttttttagaa	acggagtctc	600

gctctgtcgc	ccaggctgga	gtgcagtgcc	acgatctcgg	ctcactgcaa	gctccgcctc	660
ccgggttcac	gccattctcc	tgcctcagcc	tcccgagtag	ctgggactgc	aggcacctgc	720
caccacgccc	ggctaatttt	tgtattttta	gtagtagaga	cggggtttca	ccgcgttagc	780
caggatgttc	tcgatctcct	gacctcgtga	tccgcccgcc	tcggcctccc	aaagtgtctg	840
gattacaggt	gtgaccaccc	gcgcccggcc	agtatccatt	tttaaaaaact	acattttctc	900
tttgttgctt	gggtagagaa	ataaaatcaa	tttttaattt	atcttatatc	tgatcatttt	960
ctcgtgccga	attcgatata	aagcttatcg	ataccgtcga	c		1001

<210> 194
 <211> 1378
 <212> DNA
 <213> Homo sapiens

<400> 194						
ggcacgaggt	gggtgtgtgt	gttcctaata	atattttttt	gtgaaccaa	gcaaataaaa	60
aaatgctggg	gttaagtcct	tatttatcca	gaaaaaaaat	agcataatac	taaaaccaag	120
ataacactaa	tgtgatgtga	tgttcttgta	aaaagctaac	ctattttcaa	aggctgtgtg	180
gaaaaatcag	tcttaaaatt	atactacagg	ttttcacatt	tttaaaaaaa	tcttcatttg	240
gggtgaggag	gtgaaatatg	ctcttacctc	ttttatgaat	taaatggaat	atgaaaaatg	300
ctctaagtat	atctcttcac	atcttccctt	cagtgtctgt	tttccgttgt	gtgtatgctt	360
gcaacttttc	ttgctctgca	gtttcaaatg	gagtagttaa	aaaatgacct	ttttatccag	420
tgggtaaagg	acaactttta	cctatgaaac	atttatttgc	ctaaattata	agaatgcaag	480
atztatatct	gacagagatt	taatcattgt	ctagcccttc	attgtttaga	aacacacaaa	540
aattaagggg	ataggcagtt	ctacaaaatg	tcttcttttag	gtaaaatatg	tagaacatct	600
ttatctttgt	atatagcatc	tctgttgata	tatttttagca	ttaattgttt	gatcattgtc	660
aggaaatcta	attagataag	cctgtttcta	ctctcatgaa	ggtattcaaa	tcttcgtata	720
taatgaaatt	tttcaatcat	ttattagctg	ttgactgata	tgagaataaa	ataataaaaa	780
taaaactcta	tcacttatgt	gggatgatgt	caaactcctga	cacatcatcc	accactcaca	840
gataactata	gacataactc	ttataaaggc	ctcattatac	tatattaggg	cataaaaaga	900
agccattttac	ctctcaatgc	cctaaagtat	aaaacttgga	cattcagaaa	aaaataaata	960
agagaaacac	aatcccatcc	tagcccagaa	ttcctaaatt	gcaaatttgt	tttcagaaat	1020
tactttttcat	tatacagtta	tttaattctt	gatgactatg	aagtcatgcc	atggataaaa	1080
aattagagaa	aaaacagaaa	aaagtttgta	ttcttataaa	taagtaaaaa	tgtaattcag	1140
cttgaccaag	aatatctgga	ttattttcta	ttttaataca	gtaaactcaa	agtaagtcac	1200
gtaaatgaaa	gtctgttttt	attacctcct	caatcaacta	tctttttcaa	gggtgtaacc	1260
ttgcagtcca	cttcaataag	aaaatacatc	aaccaaacta	ctctttcacc	tgtggtaaat	1320
atcagccaca	tttctaggca	agctcgtgcc	gaattcgata	tcaagcttat	cgataccg	1378

<210> 195
 <211> 1316
 <212> DNA
 <213> Homo sapiens

<400> 195						
aggaattcgg	cacgagcttt	gactccccct	ctttcttaaca	gaatgttgcc	accactgctt	60
gagtgggctg	tgtttgttcc	tctgtcccag	cttctgttgt	agaaaataac	attgttaggg	120
gaactcaggc	tagtgtcagc	gtcttggttt	ggggagaaaa	aattaaatgt	ttcggttttt	180
gtttcttttg	ctgttttggt	tttaccttgt	tacttttatca	tattgacttt	agggtcaaag	240
gcaacatcag	agaagtcag	atatgtatag	tgacattcca	ggggtgggga	aggtgtaggg	300
atccagggtt	ctcccgtct	tggccacagg	cacaatcatc	accttcacgc	ttccagattc	360
ctggggagaa	aactgagaa	atcggtacct	gccagcctca	tacagagcaa	aagctctgtc	420
ctcaggggcca	agttcttaacc	actgctctgt	agaccttctc	tgcaatcaag	tggcctctaa	480
ggagcatgcc	tgaggacaaa	taactgtgcc	tcagtttctc	cacctgcaga	tggggttatc	540
aaataacacg	aagtgtgcag	cctgacctgt	aggaggtgtg	agtgtgttcc	caaactaaag	600
ccccaggctg	ccatcattta	caggcttggc	ttgccccggg	cccctcacc	ccgtttctga	660
ccatcccaag	tctctctggg	acaggcaagt	cactctgtgt	ctttaataag	cttgagggtg	720
ttgggaagct	tcagtgttac	tggccaggcc	aggaggaatc	aggccaccag	ggctccatct	780
ctatcctggg	atagcattca	ccccactcct	cctcagggtc	gaccccgact	catggcccct	840
ttaaaccctg	aaggccgatt	ctgccccctc	ctctgttata	tgcaaacctg	aggaaggagg	900
taaaagtggg	ctcctaggtg	agcccaaagt	ctcctgagag	ataagggaaa	agaattggac	960
tgtaggttta	aaaaagttgc	tcttggccgg	gcacagtggc	tcacgcctat	aatccagca	1020

ctttggggagg	ctgaggcagg	aggcagatca	cctgaagtca	ccctgaccaa	catggagaaa	1080
ccctatctct	actaaaaata	gaaaaattag	ctgggcgtgg	tgggtgagtgc	ctgtaatcgc	1140
agctactcag	gaggctgagg	caggagaatc	gcttgaaccc	aggaggtgga	ggttgcaatg	1200
agccaaaatc	gcgccattgc	actccagcct	gagtgcacaga	gcgagactcc	gtctcaaaaa	1260
aaaaaaaaaa	aaaaaaaaact	cgaggggggg	cccggtagcc	aattcgccct	atagtg	1316

<210> 196

<211> 1738

<212> DNA

<213> Homo sapiens

<400> 196

ggcacgaggg	gagagaaagg	agacctgggt	ctcccaggaa	gcaaagggga	cagggggcatt	60
agtatcagtg	acaccagcaa	tgtagggttcc	cagccccttc	ccagtggcag	cttgtgtgtc	120
caggagatag	gacatcattt	aacgcacag	caaagtagca	gcagatgcc	catacagagt	180
agagcgaagg	catttggttg	atcggtcact	agagatctat	cttgcaaaa	gtatgttttt	240
cctcataaaa	gtgcctctta	attggccatt	gtaccagcca	cttgtcctag	ccaaatgtcc	300
aaaacacgcc	cttgggcccc	gccacgttac	aatccacaga	ttgtctgtct	gagtcgttta	360
aggcatttcc	tgggtgcttg	gttccatgaa	taaaaggaca	aagtcagaag	atcactgatg	420
tcttactgtc	aacagagata	ttttaaaaga	gagaagcagg	aaaagatctt	cctttttttg	480
atctacaact	tatatagttt	tctgattatg	cacataatag	atatgccttc	cagatgcata	540
aggcaaacat	ctggaaagaa	atatacccaa	atcttagcag	gggttatctt	tgggagtgga	600
gtacatggga	ttttgctttc	ttcattttta	taattttata	ttactgtctt	ggaagatgtg	660
tttatgtgtg	tgtgttactt	ttacaatcag	gaaaacatat	ttaataacat	atagtcaaga	720
aaacagactt	aaaaataaat	actatgtgtc	cattgagaaa	attcacaata	taaacagaaa	780
tacaaataaa	tacatacaca	attttaaagt	cacctgtagc	cctaccctta	gaggtaccca	840
gggttaacat	tttgggtgga	ttgtcttata	aatttttccg	ttgatacatt	cagcaaattt	900
ggagcacatt	gaccatggag	ttttgtgtcc	aaatccaatc	tgaatttacc	tggaagaggc	960
cttgacacct	gcatggaaat	gagctaagaa	aaccactgga	gccttgggag	ctctttggcc	1020
tcctggctgg	cccagtaata	tctgagctcc	tttggttaat	ttataactga	tataaaaacta	1080
catcttcttt	ataatataaa	ttgtacctgt	gagtctagaa	gctttaaatg	tgtttaaatt	1140
aaaatattca	agctaaatgt	tactgtcttc	tcccaaattc	tgtaatgttg	actcccgtta	1200
cccccaattag	aagtaacttc	tttgtttcat	gccactttta	tagcatttgg	taattctgct	1260
ataacacatc	ttgcccctat	tattaactgt	gcacagtaca	caaagggtgtg	cctttacgtg	1320
ggaacatgga	ttgtgaatga	ctctgtaagt	aggcctgagt	attagttatc	tttccactca	1380
ctccccgttc	ccctttccaa	ccccaaaggc	tcacgatagg	ggctcactaa	atgtcagtgt	1440
ttcaccaaag	tattttttcc	attgtattaa	gagtccagtc	actgtatatg	gaagtatttt	1500
attttttatt	tttttatatc	acttgagtcc	actagtagta	cttccttgc	ctgtttgact	1560
tgtcagatac	aaagacacgg	gattagattt	tgggtggtaa	aattgtgata	cgcattggctg	1620
ttgatggagt	ggaacatctt	agtgatgtga	gaaagggtcat	tttagttata	aatgtaaacc	1680
aattacttta	gcacaacaat	aaagatgttc	tggaaattac	aaaaaaaaaa	aaaaaaaaaa	1738

<210> 197

<211> 528

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (106)

<223> n equals a,t,g, or c

<400> 197

gaattcggca	cgagctcgtg	ccgagagtg	agagctccag	gaaaggggtat	cagagctgca	60
gccagctctg	ccctctaccc	tagggaggcc	agaaagacac	aaacancctc	cgggccttta	120
cgctggactc	tggcttggca	ggctccaggc	agggtcctct	gggaagttac	tctagaaaac	180
gaagggagga	ggagcacaag	atcctcagca	acgaacacct	gcacttagaa	aaagtggaca	240
gcttctgcca	accacaccct	acccatggta	ctgtatgcta	ttactcctg	gaaacgcccc	300
gtaaatgcga	gttgtttttg	tatttgtgtg	ttgagatggg	ccttgtggtt	tctctgtact	360
cagagcacat	ttcttgaat	tactattgtt	atttttattg	tcagtactgc	ccctgagctc	420
tgggtgagaa	agctgaattt	acaaggaaa	ggatgaagtt	aatatttgca	tcacataatt	480

atatcattac tgtgtaaaaa aaaaaaaaaa aaactcgagg gggggggcc

528

<210> 198

<211> 1054

<212> DNA

<213> Homo sapiens

<400> 198

ggcacgagtg	gatatatcac	atthttgttta	tctgttcac	agttgatgaa	cttttgggtt	60
gtttctgctt	tttctggcta	ttgtaaatag	tgctgttatg	aacactgatg	tacaattttt	120
tgggggtgaac	atthttgtttt	attctttttg	gtatatacct	cggtgtggaa	ttgcgggac	180
atatatggta	atthctgtctt	taacttaatg	aggaactgcc	aatctgtttt	cctcagtgac	240
tgtaccattt	tatattccta	ttagcaatac	acaagtgtcc	caatttctcc	acatttttgc	300
cgacactgtt	ttccattaaa	aaatthtttat	tgtagtccatt	ctagtgggtg	taaagtggta	360
tctthtttgtt	ttgatttgca	tttccccagt	aactaatgac	attgagcctt	ttttcatgtg	420
cttggtggcc	atthgtatat	cttcttttga	ggaatgtctg	tttaagtcct	ttgcccactt	480
ttaattgtgt	tgtctttgtg	ttgtagagtt	gtaagagttc	tttatacatt	ctgggtacta	540
gacatgattt	tcaaatttag	atacatgatt	ttcaaactct	ttgcctmtar	atgtttttta	600
ctthttttatt	tttgatcctt	gaactcatct	atattstakg	gttgtgatgw	aawratgtca	660
gaattgggtg	catttgtgtt	tatttaccag	gttatttggg	aggattatat	tttaggtgct	720
ctcctytccc	ccagtaaattg	gtattatgac	acaaggggtt	ttaaaggactg	ataagaaatt	780
acttaagaca	gaaaggggaag	ttggcctgct	tccaaaatat	ggtcccagca	gaagtgaagt	840
tagttacaca	aataactaca	gtcaaaaagc	tattthttatc	catgataatg	tatttgtttg	900
tattaatatt	aaagattata	ttttgccagg	tgcagtggct	cacatctata	atcccagcac	960
tttgggaggc	tcaggtggat	ggatcacttg	agctcaggag	tttgagacca	gccagggcaa	1020
catggtgaaa	ccccatctct	acaaaaaaa	aaaa			1054

<210> 199

<211> 5061

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (5057)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (5058)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (5059)

<223> n equals a,t,g, or c

<400> 199

ggcacaagca	gctcgccgag	cagcgggtgt	atthtgcggcc	tgtgcgagta	ggcgcttggg	60
cactcagctt	ccctggcgag	cgacgggcag	aaatctcgaa	ccagtggagc	gcactcgtaa	120
cctggatccc	agaaggctgc	gaaggcagta	ccgtttcctc	agcggcgagc	tgctgcagta	180
agaatgtctt	ttccacctca	tttgaatcgc	cctcccatgg	gaatcccagc	actcccacca	240
gggatcccac	ccccgcagtt	tccaggattt	cctccacctg	tacctccagg	gaccccaatg	300
attcctgtac	caatgagcat	tatggctcct	gctccaaactg	tcttagtacc	cactgtgtct	360
atgggttgaa	agcatttggg	cgcaagaaag	gatcatccag	gcttaaaggc	taaagaaaat	420
gatgaaaatt	gtggctctac	taccactgtt	tttgttggca	acatttccga	gaaagcttca	480
gacatgctta	taagacaact	cttagctaaa	tgtgtgtttg	ttttgagctg	gaagagagta	540
caagggtgct	ccggaaagct	tcaagccttc	ggattctgtg	agtacaagga	gccagaatct	600
accctccgtg	cactcagatt	attacatgac	ctgcaaattg	gagagaaaaa	gctactcggt	660
aaagttgatg	caaagacaaa	ggcacagctg	gatgaatgga	aagcaaagaa	gaaagcttct	720
aatgggaatg	caaggccaga	aactgtcact	aatgacgatg	aagaagcctt	ggatgaagaa	780

09/05/08 09:20:04

acaaagagga	gagatcagat	gattaaaggg	gctattgaag	ttttaattcg	tgaatactcc	840
agtgagctaa	atgccccctc	acaggaatct	gattctcacc	ccaggaagaa	gaagaaggaa	900
aagaaggagg	acatttttccg	cagattttcca	gtggccccac	tgatccctta	tccactcatc	960
actaaggagg	atataaatgc	tatagaaatg	gaagaagaca	aaagagacct	gatatctcga	1020
gagatcagca	aattcagaga	cacacataag	aaactggaag	aagagaaagg	caaaaaggaa	1080
aaagaaagac	aggaaattga	gaaagaacgg	agagaaagag	agagggagcg	tgaaaaggaa	1140
cgagaaaggg	gagaacggga	acgagaaagg	gaaagagaac	gtgaacgaga	aaaggagaaa	1200
gaacggggagc	gggaacgaga	acgggatagg	gaccgtgacc	ggacaaaaga	gagagaccga	1260
gatcgggatac	gagagagaga	tcgtgaccgg	gatagagaaa	ggagctcaga	tcgtaataag	1320
gatcgcagtc	gatcaagaga	aaaaagcaga	gatcgtgaaa	gggaacgaga	gcgggaaaga	1380
gagagagaga	gagaacgaga	gcgagaacga	gaacgggagc	gagagagaga	gcgagagagg	1440
gaacggggagc	gagaaagaga	aaaagacaaa	aaacgggacc	gagaagaaga	tgaagaagat	1500
gcatacgaac	gaagaaaact	tgaagaaaaa	ctccgagaga	aagaagctgc	ttatcaagag	1560
cgccttaaga	attgggaaat	cagagaacga	aagaaaaccc	gggaatatga	gaaagaagct	1620
gaaagagaag	aagaaagaag	aagagaaatg	gccaaagaag	ctaaacgact	aaaagaattc	1680
ttagaagact	atgatgatga	tagagatgac	cccaaattatt	acagaggaag	tgctcttcag	1740
aaaagggttgc	gtgatagaga	aaaggaaatg	gaagcagatg	aacgagatag	gaagagagag	1800
aaggaggagc	ttgaggaaat	caggcagcgc	cttctggcag	aagggcattcc	agatccagat	1860
gcagagctcc	agaggatgga	acaagagggt	gagaggcgca	ggcagccaca	aataaagcaa	1920
gagccagaat	cagaagagga	ggaagaagaa	aagcaagaaa	aagaagaaaa	acgagaagaa	1980
cccatggaag	aggaagagga	gccagagcaa	aagccttgct	tgaaacctac	tctgaggccc	2040
atcagctctg	ctccatctgt	ttcctctgcc	agtggcaatg	caacacctaa	cactcctggg	2100
gatgagtctc	cctgtggtat	tattattcct	catgaaaact	caccagatca	acagcaacct	2160
gaggagcata	ggccaaaaat	aggactaagt	cttaaactgg	gtgcttccaa	tagtcctggt	2220
cagcctaatt	ctgtgaagag	aaagaaaact	cctgtagata	gtgtctttaa	caaatttgag	2280
gatgaagaca	gtgatgacgt	accccgaaaa	aggaacttgg	ttcccttgga	ttatggtgaa	2340
gatgataaaa	atgcaaccac	aggcactgta	aacactgaag	aaaagcgtaa	acacattaag	2400
agtctcattg	agaaaatccc	tacagccaaa	cctgagctct	tcgcttatcc	cctggattgg	2460
tctattgtgg	attctatact	gatggaacgt	cgaattagac	catggattaa	taagaaaatc	2520
atagaatata	taggtgaaga	agaagctaca	ttagttgatt	ttgtttgttc	taaggttatg	2580
gctcatagtt	caccccagag	catttttagat	gatgttgcca	tggtacttga	tgaagaagca	2640
gaagttttta	tagtcaaaat	gtggagatta	ttgatatatg	aaacagaagc	caagaaaatt	2700
ggtcttgtag	agtaaaactt	tttatattta	gagttccatt	tcagatttct	tctttgccac	2760
ccttttaagg	actttgaatt	tttctttgtc	tttgaaagaca	ttgtgagatc	tgtaattttt	2820
tttttttgta	gaaaatgtga	attttttggt	cctctaattt	gttggtgccc	tgtgtactcc	2880
cttggttgta	aagtcactct	aatccttggt	tctctttata	ctcaccaggt	acaaattact	2940
ggtatgtttt	ataagccgca	gctactgtac	acagcctatc	tgatataatc	ttgttctgct	3000
gatttgtttc	ttgtaaatat	taaaacgact	ccccaattat	tttgcagaat	tgactttaat	3060
attgaaatgt	actgtatagg	aaccaacatg	aacaatttta	attgaaaaca	ccagtcataa	3120
actattacca	ccccactctc	cttttgatca	gaaatggcaa	gcccttggtga	aggcatggag	3180
tttaaaattg	gaatgcaaaa	attagcagac	aatccattcc	tactgtattt	ctgtatgaat	3240
tggtttgtga	atgtatgtgt	aaaagtcttt	attttcccta	atttgctttg	gtggggtcct	3300
taaaacattt	cccaactaaa	gaatagaatt	gtaaaggaaa	agtggtagct	ttccaacctg	3360
aatgtctgtg	tataattagg	ttattagttt	cccagagcat	ggtgttctcg	tgctgtgagc	3420
aatgtgggtt	gctaactgga	tgggggtttt	ttattaataa	gatggctgct	tcagcttctc	3480
ttttaaaagga	atgtggatca	tagtgatttt	tccptttta	tttattgctc	agaaatgagg	3540
catatcctaa	aaatcctgga	gagctgtatt	taatgcattt	ttgcactaat	tggtccttag	3600
tttaattcta	ttgtatctgt	ttatttaaca	aaaaattcat	cataccaaaa	agtgtaagtg	3660
aaaaccccc	ttaaaacaaa	acaaaaaaat	gaaataaaat	taggcaaat	gacagacagt	3720
gagagtttta	caaacatgat	aggtattctg	ctcggcaatt	tgtaagttaa	catgttattt	3780
aaggataaag	gtaaatcatt	caaggcagtt	accaaccact	aactatttgt	tttcattttt	3840
gtcttgtaga	agggtttatat	cttggtttac	cttggtcat	tagtgtttaa	aaatgtactg	3900
atgatgtgct	tagagaaatt	cctggggctt	tcttcgttgt	agatcagaat	ttcaccaggg	3960
agtaaaatta	cctgaaaacg	taagaagttt	ttaacagctt	ttcacacaaa	ttagatgcaa	4020
ctgttcccat	gtctgagtac	ttatttaaaa	gaaaggtaaa	gattggcctg	ttagaaaaag	4080
cataatgtga	gctttggatt	actggatttt	tttttttttt	aaacacacct	ggagaggaca	4140
tttgaaaaca	ctgttcttac	cctcgaaccc	tgatgtgggt	ccattatgta	aatatttcaa	4200
atattaaaaa	tgatatattt	tgatcctggg	gactcatatt	ctttcagaat	catgtaataa	4260
aatggcatca	tgttgtaatt	gtgtgggtga	tactagaaaa	gttaaaaaata	tgggctgamc	4320
ttttttatgga	cttgattttt	atgactattg	tactctaaag	gtcaagggaag	ccattttacat	4380
tatttttggat	gaatctacta	tacatctatg	gaaatgtctc	ttttatttta	aattctgggt	4440

tctcaacgga	aaatttcaga	aaagatgccc	cttgccattt	tcgttaattt	ttcagtcttt	4500
tcttagacac	acccccagcc	taagaccttg	ttcgaggagt	ttattgtgtc	tgtcttttct	4560
taacatactg	cactgttctt	aagcatcata	ttgtgtgtgt	tttatttagc	cactattaac	4620
atgaaggttt	attcaggtag	atttgatttc	ctttgcttcg	tttcttctcc	tgtctgtca	4680
actgtactta	tcttaaaggg	ccactctaaa	aacaagggag	atgtcgtaat	ctgaaacctt	4740
tggggagatg	tactctgtac	tgcataacat	ctccagtgag	gtttgtgaca	ggacctcaac	4800
taaatatatg	aatttgtgca	agttcatata	ttaaagtttc	tgcagcagag	tgaaaattgt	4860
tacagtaaat	gtggtagaaa	ctgttaatcg	cttaatgcca	gtttaaatca	tgttttgtaa	4920
ccaagcttca	gtaaaaggct	ttagattgtc	agagtgtggt	gattttttaga	attgtatata	4980
taaagaatta	gacattaaac	aggcatattc	tagtgtctga	aaatacacmt	aagaaatttc	5040
tawwaaaaaa	aaaaaannna	a				5061

<210> 200
 <211> 1534
 <212> DNA
 <213> Homo sapiens

<400> 200						
ggcacaagca	gctcgccgcg	cagcggctgt	atttgcggcc	tgtgcgagta	ggcgcttggg	60
cactcagtct	ccctggcgag	cgacgggcag	aaatctcgaa	ccagtggagc	gcactcgtaa	120
cctggatccc	agaaggctcg	gaaggcagta	ccgtttcctc	agcggcggac	tgctgcagta	180
agaatgtctt	ttccacctca	tttgaatcgc	cctcccattg	gaatcccagc	actcccacca	240
gggatcccac	ccccgcagtt	tccaggattt	cctccacctg	tacctccagg	gaccccaatg	300
attcctgtac	caatgagcat	tatggctcct	gctccaactg	tcttagtacc	cactgtgtct	360
atggttgga	agcatttggg	cgcaagaaag	gatcatccag	gcttaaaggc	taaagaaaat	420
gatgaaaatt	gtggtcctac	taccactgtt	tttggttgca	acatttccga	gaaagcttca	480
gacatgctta	taagacaact	cttagctaaa	tgtggtttgg	ttttgagctg	gaagagagta	540
caaggtgctt	ccggaaagct	tcaagccttc	ggattctgtg	agtacaagga	gccagaatct	600
accctccgtg	cactcagatt	attacatgac	ctgcaaattg	gagagaaaaa	gctactcgtt	660
aaagttgatg	caaagacaaa	ggcacagctg	gatgaatgga	aagcaaagaa	gaaagcttct	720
aatgggaatg	caaggccaga	aactgtcact	aatgacgatg	aagaagcctt	ggatgaagaa	780
acaaagagga	gagatcagat	gattaaaggg	gctattgaag	ttttaattcg	tgaatactcc	840
agtgaagtaa	atgccccctc	acaggaatct	gattctcacc	ccaggaagaa	gaagaaggaa	900
aagaaggagg	acattttccg	cagatttcca	gtggccccac	tgatccctta	tccactcatc	960
actaaggagg	atataaatgc	tatagaaatg	gaagaagaca	aaagagacct	gatattctga	1020
gagatcagca	aattcagaga	cacacataag	aaactggaag	aagagaaagg	caaaaaggaa	1080
aaagaaagac	aggaaattga	gaaagaacgg	agagaaagag	agagggagcg	tgaaagggaa	1140
cgagaaaggc	gagaacggga	acgagaaagg	gaaagagaac	gtgaacgaga	aaaggagaaa	1200
gaacgggagc	gggaacgaga	acgggatagg	gaccgtgacc	ggacaaaaga	gagagaccga	1260
gatcgggatc	gagagagaga	tcgtgaccgg	gatagagaaa	ggagctcaga	tcgtaataag	1320
gatcgcagtc	gatcaagaga	aaaaagcaga	gatcgtgaaa	gggaacgaga	gcgggaaaga	1380
gagagagaga	gagaacgaga	gcgagaacga	gaacgggagc	gagagagaga	gcgagagagg	1440
gaacgggagc	gagaaaaaaa	aaaaaaaaaa	aaagggcggc	cgctctagag	gatccaagct	1500
tacgtacgcg	tgcatgcgac	gtcaaagtct	tctg			1534

<210> 201
 <211> 1771
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1672)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1696)
 <223> n equals a,t,g, or c

<220>

<221> SITE
 <222> (1706)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1749)
 <223> n equals a,t,g, or c

<400> 201
 gcctgcagtc gacactagtg gatccaaaga attcggcctg tgcgagtagg cgcttgggca 60
 ctcatgtctcc ctggcgagcg acgggcagaa atctcgaacc agtggagcgc actcgttaacc 120
 tggatcccag aaggctcgca aggcagtacc gtttcctcag cggcgagactg ctgcagtaag 180
 aatgtctttt ccacctcatt tgaatcgccc tcccatggga atcccagcac tcccaccagg 240
 gatcccaccc ccgcagtttc caggatttcc tccacctgta cctccaggga ccccaatgat 300
 tccgtgtacca atgagcatta tggctcctgc tccaactgtc ttagtaccga ctgtgtctat 360
 gggtggaaag catttgggcg caagaaagga tcatccaggc ttaaaggcta aagaaaatga 420
 tgaaaattgt ggctcacta ccactgtttt tgttggcaac atttccgaga aagcttcaga 480
 catgcttata agacaactct tagctaaatg tggtttgggt ttgagctgga agagagtaca 540
 aggtgcttcc ggaaagcttc aagccttcgg attctgtgag tacaaggagc cagaatctac 600
 cctccgtgca ctcatgattat tacatgacct gcaaattgga gagaaaaagc tactcgttaa 660
 agttgatgca aagacaaagg cacagctgga tgaatggaaa gcaaagaaga aagcttctaa 720
 tgggaatgca aggccagaaa ctgtcactaa tgacgatgaa gaagccttgg atgaagaaac 780
 aaagaggaga gatcagatga ttaaaggggc tattgaagtt ttaattcgtg aatactccag 840
 tgagctaaat gccccctcac aggaatctga ttctcaccac aggaagaaga agaaggaaaa 900
 gaaggaggac attttccgca gatttccagt ggcccactg atcccttacc cactcatcac 960
 taaggaggat ataaatgcta tagaaatgga agaagacaaa agagacctga tatctcgaga 1020
 gatcagcaaa ttcagagaca cacataagaa actggaagaa gagaaaggca aaaaggaaaa 1080
 agaaagacag gaaattgaga aagaacggag agaaagagag agggagcgtg aaagggaacg 1140
 agaaaggcga gaacgggaac gagaaaggga aagagaacgt gaacgagaaa aggagaaaga 1200
 acgggagcgg gaacgagaaac gggataggga ccgtgaccgg acaaaagaga gagaccgaga 1260
 tcgggatcga gagagagatc gtgaccggga tagagaaagg agctcagatc gtaataagga 1320
 tcgcagtcga tcaagagaaa aaagcagaga tcgtgaaagg gaacgagagc gggaaagaga 1380
 gagagagaga gaacgagagc gagaacgaga acgggagcga gagagagagc gagagagggga 1440
 acgggagcga gaaaragaaa aagacaaaaa acgggaccga gaagaagatg aagaagatgc 1500
 atacgaacga agaaaacttg aaagaaaact ccgagagaaa gaagctgctt atcaagagcg 1560
 ccttaagaat tgggaaatca gagaacgaaa gaaaacccgg gaatatgaga aagaagctra 1620
 aararaagga agaaagaagg aaggagaatt ggccaaagga agcttaaacc anttaaaaag 1680
 atttttttag gaagantttt tgttgnntga ttaggaggtt gacccaatt ttttaccaga 1740
 gggaattgnt ttttcaggaa aagttttcct t 1771

<210> 202
 <211> 2014
 <212> DNA
 <213> Homo sapiens

<400> 202
 tagcgcgggc gccctttttt ttttttttta tcttaaatac aatcaaaact tcatgtttta 60
 tagggattca tctgtttccc atacttttta catgttcagt tcagacagaa ctcatggaag 120
 aaaagacttt tctgtgagat agaacagacc atctgcttga ccgatggct ctgagggaca 180
 gccaaactcc caatggccaa agggctgtga ggaagggcaa cacatatcag aagaattttc 240
 agcaagggct aagggttagc aagggttagc acaaaatgga atgagagaag ccctaaccga 300
 atgggagttt gcctaatttt aatgaaccca aactctaaca ttgtactgga aaagcagcat 360
 taaaatccag cctgattatc acaatttaca gaatttctca ccagaggccc acaggtgaaa 420
 aagctgctta ctctaaagcc cttagaaccg tattgtgaac tgcgcatgag agggatctag 480
 gttgcgtgct ccttatgaga ctctaatacc tgatgatctg aggtggaagt ttcactcctc 540
 accaccaccc cgtccatgga aaaactgtgt tccacaaaac tgggtccctg tgccaaaaag 600
 gttagggact gctgcttttag aatataagaa acaactcaag cagccaacgg gtctagagtt 660
 aacacttcca gccctccctt ttgtacacac tcaacacttc ttgctgaact ggccgttaat 720
 aaccacttgt gaaatccctc cccacactg cacttaggcg tttgtctctt cctacettcc 780
 tttactgagt agtggcaaaa taataggaga gtggaagatg gtgatgggca atgaagaggg 840

acctattttct gaagaggaga tgttttaaa atatttttatt tttcaataacc agtaatgact 900
gaaaattaaa gaattaaagc aggaagcaaa acaaaaaacaa acaagaaacc caaaacttgc 960
aacctaaact ctccgggaaa aaaaaaattg ctataaatgt taaaagactt aaagagaaca 1020
ttgacaatgc agccctgatg tacctaatac tacttcaaac tgctggatgt ttaagctga 1080
gaatctcccc agtgccctttc tagtgctcta aaatcatctc ccaaacagat gagaaatgaa 1140
acaaacaggt ctccctttctt gagtacataa tttttataaa ttgctgcgga cccacagtga 1200
atgtatttta gagagtttca ccaaaactat caaagatcaa atggcagcaa aagatcaggg 1260
aaagaaggta gaaaaactat gcagtcacag agctaaccgg caagctgccc ttagtccat 1320
acacctgaaa tcaaatccat agccaatggt gaggaagacc acatcagagg ttagctgcat 1380
gacagcacag ctgggtccta tctccctgcc aggggtctca actgtaactc gcgctccaam 1440
tgctctgcag tcagggtgcc ctggatggct tcacagcctg gattgaacac agagtaggag 1500
ctcttctctc cctctttctt ctcttcaggg cctcgtgtcc cgacgtacat ccaatagaac 1560
aaggacagga caaaatatgc caggccaaat tccagttcca caaacagtcc cagcaggacc 1620
aaccagagaa gaaccttcaa gaaggtgata ttggtcagga aagactgggtc ccagcacgac 1680
ggcagaggaa tggctgtgtt ccatggtgtc tctgatgtgc tgccctgggg ctgagccgct 1740
tcctgaacta ggccgggctg ggcccgggca ctgcggggct taggtttcca taccaggaac 1800
cgctttagcc agcctggggc tgcctttaga gtctgtgtc ctccgcctt ctctcctggg 1860
gtttgtgcgc cctgactggc agcaggggggt tgggcccga gaccgcccg tttccgcgc 1920
gcccgaact cagctaaccg ctgttccatg gcgcgcgcct cgctccgtt ggccgataag 1980
ggagcgcgcg cccgcaggcc gcacagcagt tgcc 2014

<210> 203

<211> 594

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (587)

<223> n equals a,t,g, or c

<400> 203

ttgaataaat agggaaagg gaaaaactgg aagggggaat cattaggacc cagctgcaca 60
gacatttgca gctaaaggag tggagatcca gacgatctcc gtgggactgg gagcagctgt 120
gtttaggatt gacactgggg gaacaggcag agggaaagcat ggtcttggca ttggcagttt 180
tcacattgtt ggcttctgtc tgttgccagc ttcatcttca ttctttctat ccttgtatgt 240
cctgttttta ctcttcattg tcatttttagt gggtttccag gaggcagcag tgataaactg 300
catgcgttta gtatgccatg ttttcttggg gatccactg actttacttt cagtaacagt 360
ggttttcat tggcaactct ggtgtttccc caccatgcag gtaagatagt taggctctaa 420
acctattgaa atctgggggt ttcatttttca tagggcactt atttatcctt attcatatat 480
gggaagktt tctctctgtg ccaataggca gagtttttgg ctcattttta tggagttttt 540
agctctgtga gagaacttgc tttatacagg ggtttcactt caaaatntct tcct 594

<210> 204

<211> 1589

<212> DNA

<213> Homo sapiens

<400> 204

acgcgtccgg cggggcgagg agggagggtg gtatgaggcg gtacggaccg cggagtcgag 60
acctaccgga acgacgcggg cgagcggggc tttggacgcc ggtggagacg caggcgagca 120
ggaagaagat gagccttagg tctgaacgcc gaggaattca tgggatcct gtgcaagaaa 180
ggatgtgggt actgtggcaa ccctacctgg cagggtttct gctccaagtg ctggagggaa 240
gagtagcaca aagccaggca gaagcagatt caggagtact gggagctggt ggaacgactc 300
cagcgggagg aagaagaggc ctttgccagc agtcagagca gccaaggggc ccaatccctc 360
atattctcca agtttgaagg aaagaaaacc aacaagaaga cccgcaagg taccacagtg 420
aagaaatctt cagtacgtct tccagggtcg gatcaaagaa ggatattgaa atggattcca 480
ggcgtgtgcc tcgagacaag ctggcctgca tcaccaagtg cagcaagcac atcttcgatg 540
ccatcaagat cacctagaac gagctggcgt cagcagatga ctccctcccc accctcatct 600
acattgtttt gaagggaac ccccatgcct tcagtctaata atccagtata tcacgcgctt 660
ctgcaatcca agccgactga tgactggaga ggatggctac tatttcacca atctgggtgag 720

taagtgagtt cttggcggtt tggagaagga ctaggaaggt ggtgggtttt gggatgtgat 780
 aggtcactca ggcccatgac aggtgaatgc ttctgtgtga gaaggcagca cggctgagga 840
 agctcacttt gcatcaggga gcacaaggac caggccgtac agacactccg cctcccagca 900
 cttgatcaga gattgtgttt atcctacaga aacagatgac atgtgttggg catcactccc 960
 cacggctcctg ggtagaagag tccttcactt ggcagggtt tttcaaccaa tgaataaggc 1020
 aaattatata taagttaata atgccatttc gaaccgagac agatggcagc taaatgaagt 1080
 ttaattaaag aatgagtgtc ggggcccttt ttattgggta ctgcatctac ttcgaccaca 1140
 aaagacgaag tgacccaac ttcaagaaca ggctttgaga tggagaagaag aaacagaagc 1200
 ttgccaagga gagagctggg ctttccaagt tacctgacct taaagatgct gaagctgttc 1260
 agaagttctt ccttgaagaa atacagcttg gtgaagagtt actagctcaa ggtgaatatg 1320
 agaagggcgt agaccatctg acaaatggaa ttgctgtgtg tggacagcca cagcagttac 1380
 tgcaggcctt acagcaaact cttccaccac tagtgttcca gatgcttttg actaagctcc 1440
 caacaattag agaattctaa gtgctcagag cttggctgaa gatgatgtgg aatgagaaac 1500
 aaatgttaac ataataaaat ctcagttaaa aataaaaaaa aaaaaaaaaa 1560
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1589

<210> 205
 <211> 1547
 <212> DNA
 <213> Homo sapiens

<400> 205
 aggaattcgg cactgagtaga gactgatccc cagcagggtg tacaccggag tggcattaag 60
 ggggtgaagat gtccccctta cggagcagac cgtgtctcag gtgctgcagt cagccaaaga 120
 acagatcaag tggctactcc ttccggtaag acctcactgt tccctggctct tcctcctctt 180
 caaaaaattht gcatgtctgc tgtgaatttt catctagtcc cccaatcgat gctctcaggg 240
 tcctctcggg gatcacaggg atccttaaat ctccatgtct gtttgtgggt gccccctcaa 300
 cctccccctac acccttctta ttctttttca ttcttcttgc agttctggga gtaaaagctcc 360
 cagcatattht agataatagg gcagggggaag caccctcttt ctttctagac tggattatgc 420
 tcacatgtct ccttgccctg acatttttgt aaattctgtg ccttttgctg tagctacact 480
 tcagattaaa gtaggagaaa gaatgtgtct agtgttttcc tccctttgcc tctacctggc 540
 cctcatccca acagcccagc aaggggagag agaaagagaa ttcttttcta tagaacgagt 600
 gggggcgggg atgggtaggg atttatccaa tctaagccct aacccactt agtgacctca 660
 gtgttttctt ccattccttc ttactgccct gcctctgccc ttggaagagg ctttgggaat 720
 agttcatagg gaagggacaa catggaagaa acagcgattt aaattgtatt gaacagggca 780
 tataaaatgc attctgtacc ctgatctggc atatagcttc aaaactgcag tggcgagtgt 840
 ccctctctta gttagctacc ttaactgtcc acccttacta cctgtgggat cgttgccctg 900
 tttgtcttct ctgtgtctg gagcaaagcc agttcctaaa actaaaactc cattctagtc 960
 ttgggaagaa aagtttctac tcagaactgg ggaaggagtg gaacttatga cttgggcctc 1020
 taggctgtct ctgtcccttc agctccccga catgcattta ctctctgccg tgggtctgca 1080
 gtcgtgcaa cctaccctct ctctgcctca gccttacacc caagcagtag gtctgtgtct 1140
 tccctgtctc taggtgcgtg agagagggtc ttttcttcat aaaacctttg gggtttggat 1200
 ttccccagga agatggagaa tggataactc actcttgggt ctaatctttc ccttgacctc 1260
 agaacttctt cccacaaaa atgcctttta aaaccttctt gagacttaag cattctgccc 1320
 cacttactaa ctgccagttc tccagcactg aggtggggca gataacgggg catattttaag 1380
 ggggcattct tgtgtaaaag atgcatggag tcaggagaaa accaccttca taaactgtct 1440
 tgtgcaaaga ggaataaaac attttttcca aaaaaaaaaa aaaaaaaaaa 1500
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ctcgaggggg ggcccgg 1547

<210> 206
 <211> 2632
 <212> DNA
 <213> Homo sapiens

<400> 206
 ggcacgagct gctggccacc gtcaccgagt tgtcttttga catgtgggga ctcgtcagcg 60
 cctcgcgcgc cactgtgtgc ttctcgcttc agaacatttt ctccaaaaag gtcttgcgag 120
 attcacggat ccaccatctc cggctgtctc acatcctggg ctgccacgcc gtcttcttta 180
 tgatccccac ctgggttctg gtggacctct cggctttcct ggtcagcagc gacttgacct 240
 acgtctacca gtggccctgg acgtcactct tctggctgt cagcggcttc tgtaactttg 300
 cccagaatgt tatcgcttc agcatcctca acctcgtag cccctgagc tactcggtcg 360

cttagtatttt	tgcaagatct	aatcagttgt	acacctggtg	cccctcgctt	gcttcaatca	1020
tgggtattttg	atggcaaaat	cgacctcttg	tcgctgaagg	agagagaaaa	gatgtgtgtc	1080
tgattggtcc	tgggattttt	tgagctgtgc	catttatggt	actctttgcc	tatgcatccc	1140
cttttttagat	tttttttaaa	ttttatctta	ctgtttttat	aattttctatt	gggaagaggc	1200
ttgtgaccag	taccaatctt	gagtttcttt	ttctgtccac	aagtaaatta	atatctgtct	1260
tgaaatgtca	tttatctact	cacacattct	tggggaaaaa	aatcaaagt	cagtcctagc	1320
agattgtgca	tgtaaattgg	tagcaagtaa	tgattacaac	ccagaggatt	aagaattttg	1380
taacagaaaag	ctctatgttt	taatttttta	tatacaatta	ggataattag	cattgtcaga	1440
ctataaacct	ttgcttttta	aagtttattt	ttactatttc	tttatcactt	tattgtatca	1500
tcaccattgg	tttcataatg	taaatactat	atgttgaaca	aattaaatgt	caaaaattttt	1560
tattaccata	gtccatgtta	atagtggggc	tttcaggtgt	ttagagattt	tttttgttgt	1620
tgtaaacatt	cattgcaaaa	gtactagatg	gtgtataact	ctagagttga	attttaaggg	1680
attccctaatt	atgtatacta	tctttttatc	tgaagtaata	aataaacaat	gatcttgaaa	1740
gtgcctgaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1800
aaaaaaaaaa	aaaaaa					1816

<210> 208
 <211> 575
 <212> DNA
 <213> Homo sapiens

<400> 208						
ggcagaggct	tttgaagtta	atccttttgt	gtgatacagg	atgaacttgg	gatgtttgaa	60
ccctggacat	tccaaataaa	gaataggccc	ctgcctggct	cctgggagat	aacctctaag	120
ccattagaat	atcttgccctg	ataagagtgt	ttttgtttac	ctgtgggcct	tgggccattg	180
agtatcagct	tgaccttgca	aggtcaagct	gaggagacta	agttagccat	gtgggcagtg	240
aagcatgcca	atgtgatcaa	tccctagtaa	aagccctgga	cacctaggca	tgggtgagct	300
actctgggtg	gtaatactct	gtgcacacat	cattgtagcc	acacatcatt	gctggggagaa	360
ttaagcatta	tcctgaagac	tctgccagga	gaggataatt	ggaagtcttc	ttggacctta	420
ccttatgtgc	ctttcttcat	tgctgatttt	aatctgtatc	ctttcactgt	aataaactgt	480
aactatgagt	gcaacactta	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	540
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	tcgag			575

<210> 209
 <211> 1584
 <212> DNA
 <213> Homo sapiens

<400> 209						
ggcacgagaa	aattttataa	ttatgatagg	actcctagct	cttataagaa	gtggccttta	60
taattgccacc	tttagtactt	ttcagcattc	tacaggtgga	caattcaaga	actatatttg	120
taaaataatg	ttttaagag	agccaacggt	aaaggcagga	aatcactcaa	aacattttgt	180
atgttccaga	gactactcaa	atattaatcc	tgttttcagg	agtaacttcg	taggcgtgga	240
aaagattttt	gtttattttg	accaattcat	tattttattaa	cttcattcaa	taaatagtta	300
cattgtacct	actacatgcc	aggcactatg	ttagttagtt	tgttcactca	gtcagccagc	360
tctgtaacat	ggaaagaaat	gggaacaatt	tcacctatct	catagccacc	tgaaatagct	420
cagcatagat	agttttctgt	tcatttgctt	ctcaggctgt	tccctcactc	actcattcac	480
tcattcattt	gcttattcat	caagtaccca	ttgagggcat	tctgggtgct	gaaccctgtg	540
ctgggttaggc	actgtgcggg	tgtgagttgt	gttctgaagg	gtgaaggctg	aggatcttga	600
gagcccagag	gagggatcca	gcccgcaccc	agggaccagg	aagagtggtc	tgggaaccagc	660
acccttttga	cctaggctag	aggccgagca	ggaaccattg	aggagagagg	caggagggtca	720
gtggcccagg	cgggaaacct	cacaccaaac	cccccaacatt	tttattttgt	tttgggaaat	780
gtataggatt	aaagtaataa	ctggaaagga	aataaatgga	aacatggaat	ggaaacattt	840
cctattttcc	ctattgttat	ctgaagacaa	acttaatttt	tatgttgcta	ctttctctct	900
taaatatcct	cttactaaat	agtctgttgt	attaattaga	ctgggtagtc	ctaactcaag	960
aaagcatttg	gcaattaaaa	gatggaggac	tcagggtctg	accgttttcc	ttggccttca	1020
tttggctttc	tctctctttt	ctccccctct	tcttcccagg	cctggctggc	tgggtgcctgg	1080
acaccatttg	gggctctgag	agggttgtgg	ctgccacccc	cagtcccaat	gcctgggtcag	1140
gcactcgtat	cccctgtcct	gttcaccatt	tctcctttct	cattgttctc	ataatttgtc	1200
ctgcttaaaa	ctcctagggt	ctaagggaca	ccccctgcat	gcttgccctt	cctttgctag	1260
acaccagaga	gaggctaaaa	agtgaatgt	ggcctggtgc	agtggctcat	gcctgtaatc	1320

ccaacacttt	gggaggccga	ggcgggcaga	tcacttgagg	tcaggagttc	gaggccagct	1380
tggacaacac	gacggaatcc	tgtctctact	aaagatacag	aaattagtca	ggcatgggtga	1440
cccatgcctg	tagtcccaac	tacttggggag	gtaggaggat	ggcttggggc	cgggaggtca	1500
aggctgcagt	gagctgagat	tgtaccactg	tactccagtc	tgggtgacaa	agcaagaccc	1560
tgtctcaaaa	aaaaaaaaaa	aaaa				1584

<210> 210
 <211> 1838
 <212> DNA
 <213> Homo sapiens

<400> 210						
aattcggcac	gaggtcagaa	atgattcagg	gttattttgag	gggaaaaaac	cccatagtgc	60
cttgatttta	attcaggtga	taactcacca	tcttgaagtc	attgtccggt	ttccgtagca	120
gttttgaaac	cttagtacct	ttttaacagc	atgtgggtgt	cagtgtcatt	attagtctcc	180
taataagttc	ctctgaagac	tgctatcagt	ctcttggact	ggaggtacaa	ataattttaga	240
aataaaaagat	gataaccctaa	cactatcata	gttattaatg	tgatcctaaa	attgtttcct	300
aaatcagcat	ttttcttttag	tcattttaaga	atttaccaga	aatatttgct	caatatgatc	360
ttgatattcc	tacaaagaaa	aaagaagggg	tagggatttg	gctatgcctt	cactacaaca	420
ttagaatatt	gtaactcaca	tgcttcttaa	acgtgaacta	agatttcctt	tggcaatatc	480
atattctaaa	agtaataaat	tccaatacaa	gttacatata	tttaaaaaac	attttacaga	540
ttttatggta	ctaatagaat	ttacagtgat	agaacaaaag	aggattagta	gaaaatacat	600
tattagaata	taaaaaatgt	tattactgag	gaaagggagg	agaggacaag	tgtaataaat	660
caaaattgac	ctcaaaagaa	aatgtgtaac	agagttgagg	ttgttaaaac	agaaaagggt	720
ctgaataatg	aagattaacc	taatgcagaa	ttgctaggta	aagaggtcag	gggaatgcta	780
agccagttct	taagactttct	ctgtcctctg	ctttgctgtt	atccttaagg	catatacttt	840
gtctttctgc	agaaaattct	acctggctac	aattactttg	aacattaatg	ttgaaaaaga	900
aaacaaccaa	agaaaattgg	tacttacccct	tctacaaaag	aagtgtgact	agatatcaat	960
cagtaattaa	catatcaagg	agctcttcta	gctaaatgac	catccagtag	agatttccca	1020
cattcccatg	aatatcaaga	atagttgtca	gaatatgtat	gtacctgagc	atatgtacac	1080
agacaagggg	gatgtttgtg	aatatggcaa	tagcattgtt	cttctccctt	ttcaaattgc	1140
ctttcttgac	cttatgccat	tccatatata	tctgagttgt	gcctcattta	tttattggca	1200
atacctagtg	atacggattt	agctaacaaa	agatatgaag	aactattata	ttgaggcctg	1260
tccctctacat	accacactta	aaagatgggt	aactgtgagt	actacttagg	ttgacagcaa	1320
caagacataa	gacaagcccc	aggtaaactg	ctaaactgtt	tactcacatt	gtcctactcc	1380
agccccctca	attattttccc	atctccacaa	atagtcgggg	gaaaaaatta	aaattttcct	1440
ttatgattct	tactgttctt	cgcagctcat	cttttctctg	ttagaattaa	ccattgctaa	1500
tttaaaggag	cagctagctg	cttttctgtc	agtctgaagc	gtagtagtgg	aagaggtagt	1560
aagcaccagc	tgcctctttg	ctgctttgtt	ttcctcctga	ttctcttaaa	tttgggttgc	1620
aaagctatcc	cgccccccac	cctgccccat	gaaacttgag	cattcaaattg	aagattcagc	1680
agtgtctgtt	cttcattttct	atagccaaaag	ctgttagtta	aaatcccaaa	tctatagcat	1740
ttaaagatac	caaatagaaa	caccttccag	ctttaaaaaa	aaaaaaaaaa	aaaaactcga	1800
gggggggtcc	cgtacccaat	cgcctgacat	gcacgcga			1838

<210> 211
 <211> 1147
 <212> DNA
 <213> Homo sapiens

<400> 211						
ggcacgagct	cgaagcaaaa	ttgcacaacc	tgtagaagt	tttcttcagc	ctccaaagcc	60
tctgtcttca	ctcagcactc	tgagggatgg	aaattggaga	gatgggttgc	actaatgcag	120
ttttatgtac	ccttgaaaaa	tgggaaagaa	gtaaaaatga	gggttgtgtt	acctagctgg	180
ctgggtagca	gtggatgttg	ggatattctt	tcccttttgt	gttttaatat	atttactgca	240
ttgtttctca	atggaccagt	caccagagac	taattattgc	acttaaatat	ttgcctgaga	300
tactgcaaca	ttctcaaacc	catggttgca	gtattgtgac	acttagatct	aggaagtgtt	360
tgtagaactg	ctctgtacct	gaatactttt	tgagagaatt	aagatgtatc	aataatgctt	420
tgccatatga	gtttttttaa	gtaacttgtt	caatttactc	acgtgttcta	aacatctttc	480
cattacatgt	tctgtatttt	aatacattgc	atattgacaa	ctaggttcta	taatgtatgc	540
tttgaaattt	acttttttat	agtttacagg	aattttattt	tttgtgccta	tttcttttta	600
cacctatgtg	aaccactatg	gaacaactta	aattttgtgc	cataaaaaata	tttttgtggg	660

aaggtactat	tttttttagct	ctagggatat	atcagcaaaa	acacatcatg	caatttgaga	720
cacataat	tgtgttgaat	gagcacaaca	taatttgaag	cattgcaagg	agataaccag	780
acagcagaat	taaatggtec	tgtctttttc	atttttaatt	tattgtcata	catgggtttc	840
atatttataa	cggcatcatg	agctcattgc	acttaatacc	tgcaatgttt	gctactgtac	900
cacaattgat	tttcaatact	ttattacgaa	ggatgaaact	gtaatgtttt	attaacaatg	960
cttctggaaa	tgaatgcatt	ttaaagcaaa	taaatctttt	tgatagacct	tttacaaaat	1020
ccatttgcac	taatgaatgc	tttcttatgg	catataaact	aatatttgtt	actgtgtaca	1080
ctgctgtttt	ggaatgttca	gaaataaaga	ctctatttca	gcaaaaaaaa	aaaaaaaaaa	1140
aaaaaaa						1147

<210> 212

<211> 1049

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> n equals a,t,g, or c

<400> 212

taccgggncc	ccccccgrgt	tttttttttt	ttttttttta	atattgctcc	cattatgccc	60
aagaatcaaa	gattcttttg	tttgggtgga	ggactctctg	tccacttagc	tccctcccaa	120
ctcagctaca	gattaggttt	gtttcaataa	cataaggact	gttctccaaa	agctctggca	180
actgtggaca	aaaagggctt	cttcgagcta	ttacacaaca	tgtgactttg	ctaaatcaaa	240
cctttattta	taagatatgg	aagaatcagt	tatttgtgtg	ataagacatg	cgaattctag	300
gatagtagga	cctaggcaga	tgtccacatg	aacttgaggg	actttaaaaa	tcttaggatt	360
ttaaactataa	cccactttac	tccaacaaaa	tagaccaaat	agctaatact	tacagaatac	420
ttaccctgta	ccaggcacta	agtactttat	atgtgcgaaa	ttaatcctct	cagctctaac	480
tttacaaacg	aggagacgga	gacacaaagc	agataaggaa	cttgcccagg	atcacagggtg	540
aagtggcaga	ggctcgccct	agctgccaac	agacaccgcc	cccatgccag	gctgctgccc	600
atcgtgagca	gcagtcccat	gctaccaggc	tccgggtagt	caagaggcca	gcagtgttac	660
aggtaggctg	catcatacag	tccggcaggct	tttgtgagct	agcctgagaa	tctttcacaa	720
cactaaaatt	tgatgcgtct	tcccacagga	agaaacactg	gacttccaat	actgataata	780
acagcagtag	ctaacattct	aagagcatta	cctacgttaa	ttctttgaat	cctcagaata	840
ccatgaggta	ggtgttatta	ttacccttat	tttacagatg	aagaaactga	ggcacagaga	900
gtctttgtaa	gtaaccaaca	gttttagtaag	tgggagattt	gagattccaa	cccaggcagc	960
ctggcttcag	agtcttggct	accggagttt	ttaaccctca	cattatgctg	ccctcagaat	1020
gcttatttaa	cctttccgga	cgcgtgggt				1049

<210> 213

<211> 1444

<212> DNA

<213> Homo sapiens

<400> 213

actgttcagt	actctaggaa	gtgggtcagg	caccttgggg	gccaacgct	gctccgtggg	60
gatgtctgcc	tgccctgect	gttctctttt	cctgctgttt	cctccagcag	ggaggtatca	120
gaggcgggga	caccaagta	ggcctggcat	gggcagaaa	gaggtcacag	ctaaggcggt	180
agagtggggt	tggcaccagc	cacttgtctg	tttcccttgt	ggatcttagc	ctgtcgtctc	240
ccaaccccag	ctgcccctct	gtctccccgc	agctggtagg	tgagtgtgtg	cctcggctca	300
ctttcctcaa	gctctccggc	tgccacggtg	tgactgctga	cgctctgggtc	atgctagcca	360
aagcctgctg	ccagctccat	agcctggacc	tacagcactc	catggtgagc	cctgtgtccc	420
aagggggcct	gaaaaaaccc	aggccggggg	gacgggtgct	cttgtatttg	ggccccaggt	480
ggagtccaca	gctgtgtgta	gcttctttga	ggaggcaggg	tcccgaatgc	gcaagttgtg	540
gctgacctac	agctcccaga	cgacagccat	cctgggcgca	ctgctgggca	gctgctgccc	600
ccagctccag	gtcctggagg	tgagcaccgg	catcaaccgt	aatagcattc	cccttcagct	660
gcctgtcgag	gctctgcaga	aaggctgccc	tcagctccag	gtgctgcggc	tgttgaacct	720
gatgtggctg	cccaagcctc	cgggacgagg	ggtggctccc	ggaccaggct	tccttagcct	780
agaggagctc	tgccctggcg	gctcaacctg	caactttgtg	agcaacgagg	tcctggggcg	840
cctactccac	ggctctccca	acctgcgctt	actggatctt	cgtggctgtg	cgcgcatac	900

gccggctggc	cttcaggatc	tgccatgtcg	ggagctggag	cagcttcac	tgggcctgta	960
tggcacgtca	gaccggctga	ctctagccaa	ggagggcagc	ccctttttga	cccagaagtg	1020
gtgccataca	ctgcgagAAC	tggacttgag	tggccagggg	ttcagtgaga	aggacctgga	1080
gcaggccctg	gctgccttct	taagcaccac	tgggggctca	caccagccc	tgtgctctct	1140
taacctcagg	ggcaccggg	tcacaccaag	cactgtcagc	tctgtgatca	gcagctgccc	1200
gggctgctc	tacctcaacc	tggagtccctg	ccgctgcctt	ccccggggtc	tgaagcgggc	1260
ctaccggggc	ctggaggaag	tcagtggtg	tctgtagcag	ctgctcacca	gccccccacc	1320
cagctaggca	gccacagacc	tgggacacct	cagccagctt	gcccaccctc	cacctttgcc	1380
caatttcaga	tatttgagca	ttttgttaaa	ataaaacatt	tttaggaaaa	aaaaaaaaaa	1440
aaaa						1444

<210> 214

<211> 1277

<212> DNA

<213> Homo sapiens

<400> 214

ggcacgagct	ttaattcaaa	aatgtttgta	gttaacatta	ttttgatttc	ttcagttggt	60
gcttggaatg	tttttatact	gaccaagttg	gtatgtgacg	tttatttttc	tctgactata	120
aaagtaaaaa	agaactgaaa	atacccaaaa	agtaatgttt	tatagaaagt	ctccattga	180
tttaagaagt	tatctattag	attgatataca	gaagtttcat	atgagtattt	ggcttatgca	240
tttctgtctt	ttggtttttag	gcaaaaggat	gtcaattctt	gatgttaaac	tttaggattc	300
ttaaagtata	atgaagactg	gaatgggctg	tggggaacat	aatagtggat	gacagtgact	360
taggattcaa	ttcagaaaaat	agttgtgaat	ctgtttttatt	ttggttacag	cctactcata	420
cgattttattt	catatttttct	aagtgtattt	tgttcttcc	tgtatgtttc	ttggcccttg	480
agtcttctct	gtctttaatc	tttctctcct	ctcctactat	ttatagccag	tctcatatta	540
atttcctttc	tctagggcct	ttaaccactt	ggtgctcatt	tcagaccagt	agtagtagca	600
acaaagtctt	gcaaatacaaa	tgtatcttca	ctcctgctgt	atttaagaca	cagctatctc	660
agtatcttaa	aataacaatg	taattatttt	ttggcatacc	cttgcctgac	ttctgaggac	720
ctcactaagt	ctagttctag	cctttgtaga	atgggtcaact	tctttcatca	aggctttggt	780
ttcattactg	gtgtctgaat	tagttccact	cctagcttga	cccagatttt	agttttttatt	840
atggattttt	tcttcaaact	tgtttatttt	atattaagtt	ttcatttttg	gcagcatatg	900
gatgatttta	tttttaataa	tcatatctct	tagtaaacta	atgggttaa	aatatttaaag	960
tataagaagc	taaaattggc	cagggtgtggt	ggctcacgcc	tgtaatcca	gcactttggg	1020
aggctgaggc	aggcagatca	cctgagggtca	ggagttcaag	atcagcctgg	ccaacgtggt	1080
gaaaccctgt	ctttactaaa	aatacaaaaa	ttagctgggc	gtggtggcgc	acgcctgtag	1140
tcccagctac	ttggggaggct	gaggcagtag	aatcacttca	accagaggag	tggagggtgc	1200
agtgagcaaa	gatcatgcta	ctgcctcca	gcttggtatga	cagagcgaga	ctccatctta	1260
aaaaaaaaaa	aaaaaaa					1277

<210> 215

<211> 531

<212> DNA

<213> Homo sapiens

<400> 215

tggctggctg	cttggccagg	acagtgatgc	caccagggag	agcttccgct	tggtgaccag	60
ggacatgtcc	cagatggaca	tagaagcccc	tctctgcctc	cctgggattt	tttagacttt	120
tacttttgat	ttccctagga	tggaaagagta	taggtgggag	ataagggaag	tggggtgaga	180
ggagaaagga	aatgttggca	tgggcctgtg	tgatgtccct	gaggcagaag	agccggggac	240
tgatgggttc	aggtgggagc	tgctgggtga	ggcagggaac	ccttttctact	cccattcctt	300
agcttttagtc	taatggagcc	aaggactgct	gggaccttca	accctgatct	tttgtcttcc	360
agtcttctct	tagtgtcctg	ctcctagggt	tccctctctt	ctggttcttc	tcccagggtat	420
tctcttccca	ggcctctctg	gccactgctt	tgtatcaggg	tttttcacgc	ttttgtagaa	480
ctgagggtttc	aataaacagt	ttcagttgca	aaaaaaaaaa	aaaaaaaaaa	a	531

<210> 216

<211> 1093

<212> DNA

<213> Homo sapiens

0950032-091201

<400> 216
aagctaaccag taagacaatg aataattcag aagagaacac tattcttttta ctgactgagt 60
gcccaagatg ccaattttcca tgaagtcttg atttatatat atgtacacat gttatgcaca 120
tacatgtttg ttttctaaca gttatttttt aagcttttga gataatttta gacttacaga 180
agagttgtaa aagtagtaga gttcttgat actctgcacc caccttgccc ttatgttaac 240
atcttacgta acaatagaac atttgtcaaa attaagaaat taaccttgat ataatactaa 300
ctaaagtaga aagtttaaaa agtagagatt ttagtctttt cactaatgtc cttttactgt 360
tccaagaccc agccttgcat ttagctatca tgcctacgtc ctgtcttcca gtctgtgaca 420
gtgtatcata acaggggata cctgatgttg taatgtattt ctgggtgttg taaccttgat 480
cactatgcta aggtgggtgct tgctaggatt cgctactgta aacttactgt gttttccttg 540
taattattga atatttgctg gagatacccg gagactatgc aaatgtcccg tttctgctta 600
aacttttgct cattttacta tccattggca gatcttgctt gtggcagtta ctactgtggt 660
gttctaattg tgattttcta tttctctcaa tcttcttaca tttattattg gaattcttct 720
gtaaggaaga gttgtcagtt ctggatttat atttttaact ataataagat attcaggata 780
agtatagatt tagaacttaa agatgttaaa tcatgttaaa attattccaa ataccaatat 840
caaagaaaac taagttggta atctatctca gaaaatatat gaacttaaga aggaaaatag 900
tatttatgat ttgtagaatt ggttcaactt ttgacttaat actgactttg gactgaattc 960
aaagttttct tgaaatttca catctggact ttttaaagtg tctacattta tattactttg 1020
gggatcattt tgtcaaagtc ttgaataaag ttaccagtc ctggcatgat aaaaaaaaaa 1080
aaaaaaaaaa aaa 1093

<210> 217
<211> 1980
<212> DNA
<213> Homo sapiens
<220>
<221> SITE
<222> (35)
<223> n equals a,t,g, or c

<400> 217
cggacgcgtg ggcgagcccg ggcgcgcggcg ggcgnccgtc gcgtctgaca gaccactgca 60
gaccacgggc cgaggcccg cgcgcgcgcg cagcgcggcg gcatggcggc gacaaggagc 120
cccacgcggg caagggagcg ggacggtctg gcgctccgc cgagggaagt gaccaagttc 180
actcctggat gctagctaca agccaagcct tagacactgt ctggagaatg gcaaaaggct 240
ttgtgatgtt ggcagtttca tttctgggtg ctgccatctg ctacttccgg aggctacatt 300
tatattcagg gcacaagctg aaatggtgga ttggatatct gcagagaaaa ttcaaaagga 360
acctcagtggt ggaggcagag gttgatttac tcagttattg tgcaagagaa tggaaaggag 420
agacaccccg taacaagctg atgaggaagg cttatgagga gctatttttg cggcatcaca 480
ttaaattgtg tcgacaagta aggagagata actatgatgc tctcagatca gtgttatttc 540
agatattcag ccagggcatc tctttccat catggatgaa agaaaaggac attgttaagc 600
ttcctgaaaa actgctgttt tcacaagggt gtaattggat tcagcagtag agttttggtc 660
ctgagaagta tacaggctcg aatgtgtttg gaaaactacg gaaatatgtg gaattattga 720
aaacacagtg gactgaattt aatggcatta gagattatca caagagagga agtatgtgca 780
acaccctttt ttcagatgcc attctggaat ataaacttta tgaagcttta aagttcatca 840
tgctgtatca agtcaactgaa gtttatgaac aaatgaagac taaaaaggctc attcccagtc 900
tttttagact cctgttttcc agggagacat cctctgatcc tttgagcttc atgatgaatc 960
acctgaattc tgtaggcgac acatgtggac tagagcagat tgatatgttt atacttggat 1020
actcccttga agtaaagata aaagtgttca gactgttcaa gtttaactcc agagactttg 1080
aagtctgcta cccagaggag cctctcaggg actggccgga gatctccctg ctgaccgaga 1140
acgaccgcca ctaccacatt ccagtccttt aagtcgcgtg ggggccgaac agcagtgctc 1200
accagtgacg gtggctcacag ttgcaataaa gtctctctct gaaaccaaag ctagcatttc 1260
agcatggaag gaattaggac cttttcttca ggattacagg tacactggat gcagccatgc 1320
atggatgggt tttctttatt tttcagtgat ttctctgaa gcagctgcac tgatacattt 1380
gggagttggt ggcttgactt tgtccataag gggcgtggcc acttcacatg atggcgggcc 1440
tttaagagca caaagaagtt taatatggac aacaacagga aaaagcaaga agaaaacaag 1500
tagggaaaaa cagctaacct ggagagaaaag aatttcttta acctttatgt tcttcattaa 1560
aatccttatc ttggactgat ttgagggatt tttagaaaac tggccttatt ttatataagc 1620
attaccttcc caggaatctt tgtgtatat taatttttga taaccatttg attaacctta 1680
aaattaagta tatgtgtgta tatatacata tgtatgttta tatacacaca tgtatctgta 1740

tagttttata	tatacatata	tacacataga	catacagaga	accactactt	tgtaatagtg	1800
tacagtttgt	tttatacttc	tttacttttt	ttgttactat	tttatctggc	cagcgtaata	1860
gtttttattta	gatttttttaa	aattctgtag	attaaagcaa	atgacagtta	ttgaactatc	1920
acaaaactat	taaactgtgg	tacattttaa	aaaaaaaaaa	aaaaaaaaaa	aaaactcgta	1980

<210> 218

<211> 1982

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> n equals a,t,g, or c

<400> 218

cggacgcgtg	ggcgagcccg	ggcgccggcg	ggcgnccgtc	gcgtctgaca	gaccactgca	60
gaccacgggc	cgaggccag	cgcccgtccg	cagcgcgssc	ggcatggcgg	cgacaaggag	120
ccccacgcgg	gcaagggagc	gggagcggtc	tggcgctsc	gccgcaggaa	gtgaccaagt	180
tcactcctgg	atgctagcta	caagccaagc	cttagacact	gtctggagaa	tggcaaaagg	240
ctttgtgatg	ttggcagttt	catttctggt	ggctgccatc	tgctacttcc	ggaggctaca	300
tttatattca	gggcacaagc	tgaaatgggtg	gattggatat	ctgcagagaa	aattcaaaag	360
gaacctcagt	gtggaggcag	aggttgattt	actcagttat	tgtgcaagag	aatggaaagg	420
agagacacc	cgtaacaagc	tgatgaggaa	ggcttatgag	gagctatttt	ggcggcatca	480
cattaaatgt	gttcgacaag	taaggagaga	taactatgat	gctctcagat	cagtgttatt	540
tcagatattc	agccagggca	tctcttttcc	atcatggatg	aaagaaaagg	acattgttaa	600
gcttcttgaa	aaactgctgt	tttcacaagg	ttgtaattgg	attcagcagt	acagttttgg	660
tcctgagaag	tatacaggct	cgaatgtgtt	tggaaaacta	cggaaatatg	tgggaattatt	720
gaaaacacag	tggactgaat	ttaatggcat	tagagattat	cacaagagag	gaagtatgtg	780
caacaccctt	ttttcagatg	ccattctgga	atataaaactt	tatgaagctt	taaagttcat	840
catgctgtat	caagtcactg	aagtttatga	acaaatgaag	actaaaaagg	tcattcccag	900
tcttttttaga	ctcctgtttt	ccagggagac	atcctctgat	cctttgagct	tcatgatgaa	960
tcacctgaat	tctgtaggcg	acacatgtgg	actagagcag	attgatatgt	ttatacttgg	1020
atactccctt	gaagtaaaga	taaaagtgtt	cagactgttc	aagtttaact	ccagagactt	1080
tgaagtctgc	taccagagg	agcctctcag	ggactggccg	gagatctccc	tgctgaccga	1140
gaacgaccgc	cactaccaca	ttccagtctt	ttaagtccgc	tgggggcccga	acagcagtgc	1200
tcaccagtga	cggtggtcac	agttgcaata	aagtctctct	ctgaaaccaa	agctagcatt	1260
tcagcatgga	aggaattagg	accttttctt	caggattaca	ggtacactgg	atgcagccat	1320
gcatggatgg	tttttcttta	tttttcagtg	atttcctctg	aagcagctgc	actgatacat	1380
ttggggagttg	gtggcttgac	tttgtccata	agggggcggtg	ccacttcaca	tgatggcggg	1440
cctttaagag	cacaaagaag	tttaatatgg	acaacaacag	gaaaaagcaa	gaagaaaaca	1500
agtagggaaa	aacagctaac	ctggagagaa	agaatttctt	taacctttat	gttcttcatt	1560
aaaaatctta	tcttggaactg	atttgaggga	tttttagaaa	catggcctta	ttttatataa	1620
gcattacctt	cccaggaatc	tttgttgtat	attaattttt	gataaccatt	tgattaactt	1680
taaaattaag	tatatgtgtg	tatatataca	tatgtatgtt	tatatacaca	catgtatctg	1740
tatagtttta	tatatacata	tatacacata	gacatacaga	gaaccactac	tttgtaatag	1800
tgtacagttt	gttttatatc	tctttacttt	ttttgttact	attttatctg	gccagcgtaa	1860
tagttttatt	tagatttttt	aaaattctgt	agattaaagc	aaatgacagt	tattgaacta	1920
tcacaaaact	attaaactgt	ggtacattta	aaaaaaaaaa	aaaaaaaaaa	aaaaaactcg	1980
ag						1982

<210> 219

<211> 2154

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (461)

<223> n equals a,t,g, or c

0995005660 "04201"

095062-091201

<400> 219

cccacgcgtc	cgarcgcgagc	tgaggctcgg	cttcctgctg	atgggtcaggg	ttttggcaac	60
tccccggtgt	gagaggggta	gggagtgtc	cgggcggcga	cggggccgag	ttcaccagcc	120
gccggggcag	tagtcgaagg	cccggcgcgg	catgtcctgg	gtgccgcgg	gcgggagtg	180
aacgcgcgcc	gggcgggatg	ggccggcgcc	gggcgccaga	gctgtaccgg	gctccgttcc	240
cgttgtacgc	gcttcagggtc	gaccccagca	ctgggctgct	catcgtgcg	ggcggaggag	300
gcgcgcgcaa	gacaggcata	aagaatggcg	tgcactttct	gcagctagag	ctgattaatg	360
ggcgcttgag	tgccctccttg	ctgcactccc	atgacacaga	gacacgggcc	accatgaact	420
tggcactggc	tggtgacatc	cttgctgcag	ggcaggatgc	ncactgtcag	ctcctgcgct	480
tccaggcaca	tcaacagcag	ggcaacaagg	cagagaaggc	cggttccaag	gagcaggggc	540
ctcgacaaag	gaagggagca	gccccagcag	agaagaaatg	tggagcggaa	accagcacg	600
aggggctaga	actcagggtg	gagaatttsc	aggcggtgca	gacagacttt	agctccgatc	660
cactgcagaa	agttgtgtgc	ttcaaccacg	ataataccct	gcttgccact	ggaggaacag	720
atggctacgt	ccgtgtctgg	aagggtgccc	gcctggagaa	ggttctggag	ttcaaagccc	780
acgaagggag	attgaagacc	tggcttttagg	gcctgatggc	aagttggtaa	ccgtgggccc	840
ggaccttaag	gcctctgtgt	ggcagaagga	tcagctgggtg	acacagctgc	actggcaaga	900
aaatggaccc	accttttcca	gcacacctta	ccgctaccag	gcctgcaggt	ttgggcaggt	960
tccagaccag	cctgctggcc	tgcgactctt	cacagtgcga	attccccaca	agcgccgtcg	1020
ccagccccct	cctgctacc	tcacagcctg	ggatggctcc	aacttcttgc	cccttcggac	1080
caagtccgtg	ggccatgaag	tcgtctcctg	cctcgatgtc	agtgaatccg	gcaccttcc	1140
aggcctgggc	acagtcactg	gctctgttgc	catctacata	gctttctctc	tccagtgcct	1200
ctactacgtg	agggaggccc	atggcattgt	ggtgacggat	gtggcccttc	tacctgagaa	1260
gggtcgtggt	ccagagctcc	ttgggtccca	tgaactgcc	ctgttctctg	tggtcttgga	1320
cagtcgttgc	cagctgcac	tgttgccctc	acggcggagt	gttcctgtgt	ggctcctgct	1380
cctgctgtgt	gtcgggctta	ttattgtgac	catcctgctg	ctccagagt	cctttccagg	1440
tttcctttag	cttcctgct	tcctgggaat	caggagcctg	gacactgcca	tctctagagc	1500
agagtggagg	cctggactcc	ctttgtcac	tccattcggg	tccacagctg	aggttgccctc	1560
tgacaagatg	aatgggcact	gcctgccctt	ctagtgaata	ggcttggcta	tggccctgtg	1620
tgactccagg	tcccaggaac	cttgccctcg	tcactgtgtg	atccatccag	aacagcggta	1680
tctgaagccc	agccatact	ccctgcctcc	ttcttctctg	ctaccagagg	ctccagagtt	1740
gagcttgctc	ttatctagaa	acatgtgaag	atgcccaaga	gcctggaggc	actgctgtcc	1800
ttcctgcaga	aacagtttct	cctcctcccc	tcagccttgt	ggccagttcc	tcttcacatg	1860
aagccccctg	catttgctgg	ggaagggact	ggcctggtag	ttgctgttag	ggcaggaagg	1920
ggcaaaagga	agacttgggt	agtaactctg	gggttcagat	gggtagcact	aagccagctg	1980
gcctaaagat	gcaataagtt	cctaggtagt	ctacccttac	cttgaggaa	gggaaatga	2040
acctcagccc	attaggcagg	aaaagttgat	atttaataaa	caaggaaaga	gtgaactgag	2100
accccaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaa	2154

<210> 220

<211> 1009

<212> DNA

<213> Homo sapiens

<400> 220

ggcacgagca	aagggtgaagc	tgggttttcat	ggtctcctga	gggcccctgg	cccctgggag	60
atgggtcaca	ctccctgaat	gctgtgctgt	tggtttccct	ggaggattct	tgctgcaggc	120
cagggtcccgt	attctccaca	ctcaccacaa	gtggctgggt	gtgacttgac	acggtgtgaa	180
agtggagggg	cgcgagcact	cagtatccag	cgagcagcat	tgggtggctc	agaaaattac	240
tacaaagatt	tcaccatcta	taacccaaac	ctcctaacag	cctccaaatt	ccgagcagcc	300
aagcatatgg	ccgggctgaa	agtctacaat	gtagatggcc	ccagtaacaa	tgccactggc	360
cagtccccgg	ccatgattgc	tgcagctgct	cggcgcaggg	actcaagcca	caacgagttg	420
tattatgaag	aggccgaaca	tgaacggcga	gtaaaagaagc	ggaaagcaaa	ggctgggtgg	480
tgcagtggaa	gaggccttca	tccacattca	gcgtctccag	gctgaggagc	agcagaaagc	540
cccaggggag	gtgatggacc	ctagggaggc	cgcccaggcc	attttccctc	ccatggccag	600
ggctctccag	aagtacctgc	gcataccccc	gcagcagaac	taccacagca	tggagagcat	660
cctgcagcac	ctggccttct	gcatacccaa	cgcatgacc	cccaaggcct	tcctagaacg	720
gtacctcagt	gcggggcccca	ccctgcaata	tgacaaggac	cgctggctct	ctacacagtg	780
gaggcttgct	agtgatgagg	ctgtgactaa	tggattacgg	gatggaattg	tgttcgtcct	840
taagtgtctg	gacttcagcc	tcgtatgcaa	tgtgaagaaa	attccattca	tcatactctc	900
tgaagagttc	atagacccca	aatctcacia	atttgtcctt	cgcttacagt	ctgagacatc	960
cgtttaaaaag	ttctatatatt	gtggcctttat	taaaaaaaaa	aaaaaaaaaa		1009

<210> 221
 <211> 665
 <212> DNA
 <213> Homo sapiens

<400> 221
 cccacgcgtc cgcacaggaa gagtgtgtag aagtggaaat acgtatgcct cctttcccaa 60
 atgtcactgc cttaggtatc ttccaagagc ttagatgaga gcatatcatc aggaaagttt 120
 caacaatgtc cattactccc ccaaacctcc tggctctcaa ggatgaccac attctgatac 180
 agcctacttc aagccttttg ttttactgct ccccagcatt tactgtaact ctgccatctt 240
 ccctcccaca attagagttg tatgccagcc cctaataatc accactggct tttctctccc 300
 ctggcctttg ctgaagctct tccctctttt tcaaagtgtc attgatattc tcccattttc 360
 actgcccac taaaatacta ttaatatattc tttcttttct tttctttttt ttgagacaag 420
 gtctcactat gttgcccagg ctggtctcaa actccagagc tcaagagatc ctccctgcctc 480
 agcctcctaa gtacctggga ttacaggcat gtgccaccac acctggctta aaatactatt 540
 tcttattgag gtttaacctc tatttccctc agccctgtcc ttccactaag cttggtagat 600
 gtaataataa agtgaaaata ttaacattaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 660
 aaaaaa 665

<210> 222
 <211> 1017
 <212> DNA
 <213> Homo sapiens

<400> 222
 ccacgcgtcc gctcagccca tagtggagag cctcggcttc cagggggggcc gtctgcagcg 60
 cgtggagggtg acctggcgag gctcccaccc tgaagccctg gaggtgcacg tggaccctgt 120
 aggccccctg gacaagggtga ggaaggccaa gatccgagtc aagaccagca gcaaggccaa 180
 ggtggagtc gaagagccac aggacaatga ctccctcagt tgcattgtccc ggcgctcggg 240
 tctgcctcgc tggatcctgg cctgctgcct ctccctctcc gtgctggtga tgcctgtggct 300
 gagctgctcc accctgggtga ccgcgcctgg ccagcacctc aagttccagc ctctgaccct 360
 ggagcagcac aagggcttca tgatggagcc cgattggccc ctgtaccgcg cgccgtccca 420
 cgctgtgag gacagcctac caccctacaa gctgaagctg gacctgacca agctgtaggc 480
 ctccactggc cccatcactg ccaactgcag ggggccctc gggcctcact tgcctgagc 540
 ccaggagtcc aagggcaggg tgggtccagc cttgagcccc tccaccccca aatccttctt 600
 ctctcccag tcccacccct tgcctccagg agtccctggg acgcagtgcc ccagctggga 660
 agagggcggg atcgggcact ggttctctct tgtccccgct ttcttggggg cttgtctactt 720
 tttgtcttct attgtgtggc tttctgagta tttgaacccc agtccctgtgt caccttctct 780
 tttccttctc tgtccctctc ctgcgggggg gcgctgaggc tgagggggag ctgcgtcttg 840
 ctagggtctc ccccttctcc ccaccccggt ctccagagac ccagcttctg agagacaggg 900
 tgtgggcac tccatgcccc tataaagcgt gcctggggct tgtctggggc tggggaggaa 960
 taaaccatgt atataaaaga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagg 1017

<210> 223
 <211> 2886
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (391)
 <223> n equals a,t,g, or c

<400> 223
 ggggcgtggc ggccggagga ggcgttggca gcgggctcgg acccagcgcg cgccgcggcc 60
 cgcctggcct gcagcgctcc ccccccggc ggccggcacga tgccctttga cttcaggagg 120
 tttgacatct acaggaagggt gcccaaggac cttacgcagc caacgtacac cggggccatt 180
 atctccatct gctgctgcct ctccatcctc ttctcttctc tctcggagct caccggattt 240
 ataacgacag aagttgtgaa cgagctctat gtcgatgacc cagacaagga cagcgggtggc 300
 aagatcgacg tcactctgaac atcagttttac ccaatctgca ctgcgagttg gttgggcttg 360

0950082 "091001

acattcagga	tgagatgggc	aggcacgaag	ngggccacat	cgacaactcc	atgaagatcc	420
cgctgaacaa	tggggcaggc	tgccgcttcg	aggggcagtt	cagcatcaac	aagggtccccg	480
gcaacttcca	cgtgtccaca	cacagtgcc	cagcccagcc	acagaaccca	gacatgacgc	540
atgtcatcca	caagctctcc	tttggggaca	cgctacaggt	ccagaacatc	cacggagctt	600
tcaatgctct	cgggggagca	gacagactca	cctccaaccc	cctggcctcc	cacgactaca	660
tcttgaagat	tgtgcccacg	gtttatgagg	acaagagtgg	caagcagcgg	tactcctacc	720
agtacacggg	ggccaacaag	gaatacgtcg	cctacagcca	cacggggccgc	atcatccctg	780
caatctgggt	ccgctacgac	ctcagcccca	tcacgggtcaa	gtacacagag	agacggcagc	840
cgctgtacag	attcatcacc	acgatctgtg	ccatcattgg	cgggaccttc	accgtcgccg	900
gcatcctgga	ctcatgcac	ttcacagcct	ctgaggcctg	gaagaagatc	cagctgggca	960
agatgcattg	acgccacacc	cagcctaattg	gccgaggacc	ctgggcatcg	ccagccttgc	1020
ctccagtgcc	ctgtctcctt	tggccctcaa	tctgggtcca	aatctggctg	tgtcccaaag	1080
ggtgtgtggg	aagtgggggg	aaagtagagg	atgggtcgat	gttttgcagc	tacctctttt	1140
ccccgtgttt	cttttttagac	aaattacact	gcctgaagtt	gcagttcccc	tttccctggg	1200
gagccccaag	aacagagtca	ggcaaggggt	ggggagtcca	gggatcttgg	ggacccctcc	1260
taggagagct	gcagtctctt	ccctcagggg	aacatcccag	aatgcataatc	gatcagctct	1320
cagccaggct	tcgacaatct	cgcagccccc	actaggtgga	cacattaatg	atttggtttc	1380
tcccctgggc	agccaacctg	ccccagaggc	accagacctg	ggctttcagc	tttgggacca	1440
ggctgcccac	aggtactcct	ttatacaccc	ggcaccttcc	acgaaagatg	gtacttccca	1500
agcaagcccc	tatgatattgt	cactatagat	ggaaccctga	cttctgcccc	atcccttctt	1560
gcccaccta	gaaccagggc	ctcaagtctt	tacccacccc	ctttcttggt	cttccaagaa	1620
gcagatgccc	agttgtctag	cagcagcggg	agagacttga	atctgcccac	cagtcacaag	1680
gcgggtcaca	gattcctctt	cctctcttct	cctcgttctt	ctgaaccctc	caccaatgtg	1740
cctcagcctg	tgtgtctgtg	ggcaacagca	ttctggttcc	caactgccaag	atctcccacc	1800
actctgtctg	gatctgcagt	ggcagggagt	gggggttgtg	taaaggggaa	gtcatctttt	1860
gagatccaga	tagacatggg	ttgtgcactt	acgtccagat	gggaagcatc	cttcttgcac	1920
ccctaaaata	atcatgcagc	ctctcagacg	gacgccatcg	gtcccaaggc	cttaggtgga	1980
ggaagcaaag	caggccaggc	ctgtcctgtc	cgtggacctc	taccttcttg	actccctacg	2040
ggtgcagagc	ayttgggttt	ctctacagcc	atcgtggccc	acttgacact	gtgctcctcc	2100
atcagctggg	cacatgccaa	cacgttccca	gcccctgagg	cagctccagg	gtgccccacc	2160
tgctcctgag	gtgggtccct	accctgctgc	tcctcttcat	cctttccctt	ttgtcctgaa	2220
agggaggagc	aatgggtccag	gcattaattc	cacccaggga	atttttagcta	tgccctcatg	2280
tcccagggag	agagccacac	gcctgttttc	catttatagc	aagattgttt	gcatactttt	2340
gtaatgaagg	ggagtgtcca	gtggaaggat	ttttaaaaat	atcttatgga	tagctcaagt	2400
ctctgccatt	tgtaattttt	ggctctaagc	tccgattgga	gacgcttctc	cttgtgtcatg	2460
tgagttgact	gatgtttgtg	gtgtaaattg	atttgggttat	ttctggtatc	ggtggccact	2520
tggatggatt	tttttacatt	ctgttcccca	gttacaggaa	ggagtccctt	tgggtgtgtga	2580
atatgtgtgc	ctgtagaggg	tggggcaggg	tgggtgtggg	atggaaatgt	gtggcatgca	2640
catgagttga	aattctttta	tgcatttttt	tgaagaaaaa	aaaaaaaaaac	aactctgagg	2700
acatagggga	tgtcagtttc	ctatggaaga	gacaccctctg	accggttatt	cttataatca	2760
aaatctgaag	ggaaaaaaat	gttttagttc	tttccccact	cgttgggttc	aactagatta	2820
aaaggctgat	tttcagaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2880
aaaaaa						2886

<210> 224

<211> 1298

<212> DNA

<213> Homo sapiens

<400> 224

ctcttgcttg	ctgtgactgg	tggagctgcc	gcgctgtccg	cgttatctcc	tcccgggtgag	60
aacgaaccgc	agtgtccacc	ggcgaggagc	cagccctgtc	cgggtcagag	aaagacgacg	120
aggatacctg	ggagcggggc	ggggccgggc	tgggcccgcg	cgggtcgggc	tggcgactct	180
gctcctccgc	ttgtctgtgt	ctctgggaac	tgggtgccag	cgctgagggg	cttccagcgg	240
acagggaccc	ccttccccgg	ctcccctgcc	caccctgccg	gggagggcgg	aagatgccgg	300
tgaagaagaa	gagaaaatcc	cctgggggtg	cagcagcagt	agcgggaagac	ggaggcctca	360
aaaagtgtaa	aatctccagc	tattgcagat	cccaaccccc	tgctagacta	ataagtggag	420
aggaacattt	ttcaagcaag	aagtgcctgg	cttgggtttta	tgaatatgca	ggtcctgatg	480
aagttgtagg	gccagaagga	atggaaaaat	tttgtgaaga	cattgggtgt	ggaacctgaa	540
aatattatta	tgttagtttt	agcgtggaaa	ttggaggctg	aaacatgggg	attttttacc	600
aaggaagaat	ggtttaaagg	gaatgacttc	attacagtgt	gactgcacag	aaaagttaca	660

aaacaaat	gactttttgc	gctcaacagt	tgaatgat	ttcgtcattt	aagaatatct	720
acagatatgc	ctttgatttt	gcaaggata	aagatcagag	aagccttgat	attgatactg	780
ctaaatctat	gttagctctt	ctgcttgga	ggacatggcc	actgttttca	gtattttacc	840
agtacctgga	gcaatcaaag	tatcgtgtta	tgaacaaaga	tcaatggtag	aatgtattag	900
aattcagcag	aacagtcctat	gctgatctta	gtaactatga	tgaagatggt	gcttggcctg	960
ttcttcttga	tgaatttggt	gagtggcaaa	aagtcctgca	gacatcatag	caagaactat	1020
gtgaagaaaa	tgcaaacctt	tcaattccca	cgtgtataca	agctaattgtg	atgaggggga	1080
aaaaaatcca	acgggtgcat	tttcattcat	atgaaagact	tctcatagta	cttttttttc	1140
cttttttttaa	aggaggtttt	tcttgttaca	tgtgatgggc	attgagccac	acctcttctt	1200
agactgaata	ttgaagtttt	tgttttgagt	tatgtttata	acattttattt	cagaacaata	1260
aagattcaga	tttgtgacaa	aaaaaaaaaa	aaaaaaaaaa			1298

<210> 225

<211> 989

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (352)

<223> n equals a,t,g, or c

<400> 225

ggcacgagtg	aaggaggggg	gcattaagca	ccctggggcc	ccacgatggg	cagcaagagt	60
ttgccgaggg	aggaaagccc	accggtggag	tgggcagagg	ggttggtgtg	tggacttctg	120
gagcctcagg	aggaaggggtg	cgggttcccc	tggctgcaga	cgtccctgag	gctgccctgc	180
ctcccccagg	agagaccttc	ctgccctact	acacggggccg	cgccattgat	ggcatcgtca	240
tcagaaaaag	catgggatca	gttcagcacg	gctgttcgtc	atcgtgtgcc	tgctggccat	300
tggcaggtag	ctggctcaac	ccccacgccc	tgccccgnaa	accccgacct	gnaaccaggg	360
aaggaaaggg	aggggcctgt	ttcctaagga	agacaagggg	ccaggagggc	cctggaaatg	420
cccctggtgg	gcctgtccct	cagctgggtca	ccctgggaac	cggcttccac	actgtcttag	480
agcaccctag	aaccacaccc	tctgggtccct	gaaaagggct	tcagtcctca	gggttccctg	540
ctcacccctc	ctggctgttt	tccaagtagg	aatctggtcc	caaacagaa	cggctttgtc	600
tgagttgttc	tggaaaggaag	aggggtctggc	tggcacattt	gggtctcttg	tcccacaact	660
gtccccctttg	ccctcacctt	gagggggggct	cccactggga	atgaggggga	ccccgcaggg	720
atgccagccc	tggagtgggg	ctgcggtggg	gctcccaggc	ctgcagctgc	aggcattctg	780
aggggcaaac	tggaggaag	gccagggatg	catgggattt	taattgtttc	atcacacctt	840
ccccgtggca	aagaaacagt	cagtcctctt	caggtgtctt	ctggatttct	ggtgatggac	900
agagaaatct	ttttacagtt	tcaaattatg	ttcaacaaat	aaaaattgca	ttttttattt	960
tgaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa				989

<210> 226

<211> 879

<212> DNA

<213> Homo sapiens

<400> 226

ggcacgagaa	attacagcag	tgcaaaagcag	agctaaaactc	taccactgaa	gagttgcata	60
agtatcagaa	aatgttagaa	ccaccaccct	cagccaagcc	cttcaccatt	gatgtggaca	120
agaagttaga	agagggccag	aagaatataa	ggctgttgcg	gacagagctt	cagaaacttg	180
gtgagtcctt	ccaatcagca	gagagagctt	gttgccacag	cactggggca	ggaaaacttc	240
gtcaagcctt	gaccacttgt	gatgacatct	taatcaaaca	ggaccagact	ctggctgaac	300
tgcagaacaa	catggtgcta	gtgaaactgg	accttcggaa	gaaggcagca	tgtattgctg	360
agcagtatca	tactgtgttg	aaactccaag	gccagggttc	tgccaaaaag	cgccttggtg	420
ccaaccagga	aaatcagcaa	ccaaaccaac	aaccaccagg	gaagaaacca	ttccttcgaa	480
atttacttcc	ccgaacacca	acctgccaaa	gctcaacaga	ctgcagccct	tatgcccggg	540

tcctacgctc	acggcggttc	cctttactca	aatctgggcc	ttttggcaaa	aagtactaag	600
gctgtgggga	aagagaagag	cagtcattgg	cctgaggtgg	gtcagctact	ctcctgaaga	660
aatagggtctc	ttttatgctt	taccatatat	caggaattat	atccaggatg	caatactcag	720
acactagctt	ttttctcact	tttgtattat	aaccacctat	gtaatctcat	gttgtgtgtt	780
ttttttattt	acttatatga	tttctatgca	cacaaaaaca	gttatattaa	agatattatt	840
gttcacaaaa	aaaaaaaaata	aaaaaaaaaaa	aaaaaaaaaaa			879

<210> 227
 <211> 1919
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1903)
 <223> n equals a,t,g, or c

<400> 227						
agacagggwg	gcggtggcag	aggacacttg	tcatggccgc	ctctaaacct	gtggaggcag	60
cggacaccct	gaaggtcccg	gtgctcactt	ggacatgaac	tctcttgata	gagcccaagc	120
agccaagaat	aaaggcaata	aatattttaa	agcaggaaaa	tatgaacaag	ctattcagtg	180
ctatactgag	gctattagct	tgtgccctac	agagaagaat	gttgaccttt	ctacatttta	240
tcaaaacaga	gctgctgcct	ttgaacagtt	gcaaaaaatg	aaagaagtgg	cacaagactg	300
tacaaaagct	gttgaactta	atcccaaata	tgtgaaagct	ctcttttagac	gtgcaaaagc	360
ccatgagaag	ctagacaata	agaagggaatg	tttagaagat	gtcactgctg	tgtgtatatt	420
agaagggttc	caaaatcaac	aaagcatgct	gttagccgat	aaagtcttta	aactccttgg	480
aaaagagaaa	gccaaagaaa	aatataagaa	tcgtgaacct	ctgatgccat	ctccacagtt	540
tatcaaactc	tacttcagtt	ctttcacgga	tgatatcatt	tcccagccca	tgcttaaagg	600
agagaaatct	gatgaagata	aagacaagga	aggggaggct	ttagaagtga	aagaaaattc	660
tggatactta	aaggccaaac	agtatatgga	agaagaaaac	tacgataaaa	tcataagtga	720
atgctcaaaa	gaaatagatg	ctgaaggcaa	atacatggca	gaagcattgc	tactacgagc	780
taccttctac	ctgcttattg	gcaatgccaa	tgcagccaaa	ccagatttag	ataaagtcac	840
cagtttgaaa	gaagctaagt	tgaagcttgc	agcaaatgct	ctcatcaaaa	gaggcagcat	900
gtacatgcaa	cagcagcagc	ctttgctgtc	cactcaagat	tttaacatgg	ctgctgacac	960
cgatcctcag	aatgcagatg	tttatcacca	ccgaggacag	ctgaaaatac	tccttgatca	1020
agttgaagaa	gcagtggcag	atttttgatga	atgtattagg	ttaagacctg	agtctgctct	1080
ggcacaagca	cagaaatggt	ttgcattgta	ccgccaggca	tatacgggaa	acaactcttc	1140
acaaatccaa	gcagctatga	aagggttttg	agaggtcata	aagaaatttc	caagggtgtgc	1200
cgaaggctat	gcactatacg	cccaggcatt	aacagatcaa	caacagtttg	gtaaagctga	1260
tgaaatgtat	gataaatgta	ttgatattgga	accagataat	gctacaacat	atgttcataa	1320
aggtttactt	caacttcagt	ggaagcaaga	tctggataga	ggtttggaac	ttatcagcaa	1380
ggctattgaa	attgacaata	aatgtgattt	tgcctatgaa	accatgggaa	ctattgaagt	1440
acaaagagga	aacatggaga	aagccattga	catgttcaac	aaagctatta	acctggccaa	1500
atcggaaatg	gagatggccc	atctgtattc	actttgcatg	gccgcccagc	cccagacaga	1560
agttgcaaag	aaatayggat	taaaaccacc	aacattataa	aacaggggga	aagcagactg	1620
accctctttt	taaaagttta	ccccctcttc	aactgaacct	taaagacact	gtcatgaact	1680
gtgttgaaatg	gtggaaatca	gtatttctgt	ttgtggtgtt	gttatttgtt	acatctgttt	1740
catgtctagg	tggtgtgggt	gtggctgttg	aagggaagttt	gcagtcttgc	agcttttatt	1800
ccctgtgcaa	caaaagatta	gaacatgtta	aagggaatttt	taaataaaagt	tgcaaagagt	1860
acaaatgata	attggccatg	caaataaaaa	aaaaaaaaaaa	aanaaaaaaag	ggcggccgc	1919

<210> 228
 <211> 1181
 <212> DNA
 <213> Homo sapiens

<400> 228						
ccacgcgtcc	ggcagtgcca	ggaccaaggt	caaatgagtt	atagccaagt	ctacagtaag	60
atgtggcagc	attctgtttt	gaagccggga	ccatgattgg	caagcttgcc	acttgggtcaa	120
gtgctcacc	tctgaaaatg	tcttcttgg	tctttgcctc	cagctgggtg	ccacaaactc	180
tgaactggat	tccaaggctt	tcatgaatgc	acttatgttt	gctgtggcag	ctgcattatg	240

tcgtggggga	tgtggatgca	gaacctcaca	ttctgtcatc	ttgcttatgt	tactctcctt	300
tatgtttcac	tttctcaaat	gaatgtcaag	caggtgattt	tcagattcaa	aagttctaaa	360
ataaattgct	caaatttata	cattatgtaa	gctgttaata	aaatttcttg	taggtgctac	420
atatttggtt	aaatttttgg	ttgtaatttt	aagctcactg	taggcagaaa	ggaatcatta	480
agatttctat	tcttttttag	tctgtatcta	aatgaccata	tattttaatt	ccaaataactt	540
actttatact	tcagtaatgc	tcattgtatt	ttgcaaaatt	tatattgttc	ttttatttga	600
aaatataagg	ctttttttag	ctcctgaaag	ctatattata	gtcatatagt	tttattatag	660
tatttgataa	gaagagcagc	aacataattga	gaacagataa	aattctgctg	tctttttaat	720
gattatttat	taaattcttc	tcattagagc	ctattattaa	tgattgtaat	gtatttactg	780
tataattttt	ctgcaattta	ttaaatgcc	atgacttcca	atgtctgctt	ttcatgactg	840
cacacagttt	aaagctgtag	atatctaaag	gggtattttt	cagcccggca	tgggtgctac	900
gcctgtaatc	ccagcacttt	gggaggccaa	gggtgggtgga	tcacgaggtc	aggagatcaa	960
gaccatcctg	gctaccacgg	tgaaaccccg	tctctactaa	atatagaaaa	aattagccgg	1020
gcatagtggg	gggtgcctgt	attcccagct	actcgagagg	ctgaggcagg	agaatggcgt	1080
gaacccagtg	ggcggagcct	gcagtgagcc	gagatggcac	cactgcacta	tagcctgggc	1140
gacaggggtga	gactctgtct	caaaaaaaaa	aaaaaaaaaa	a		1181

<210> 229
 <211> 1801
 <212> DNA
 <213> Homo sapiens

<400> 229						
acgcgtccgc	gccctttttt	tttttttttt	ttttttcaga	cagcatctca	ctaagccgcc	60
caggctacag	tgcagtggca	caatctcagt	tcactgcagc	ctcaacctcc	tgggcataag	120
tgatccctcc	acctcagcct	cccaagtagc	tgggattaca	ggcatgcacc	actatgttcg	180
gctactttta	aaaatttttt	tgctcgagagc	acatctcatt	atattgcccc	agctgggtctc	240
aaactcctag	gctcaagcaa	tcctcccacc	taggcctcgc	aaagtactgg	aattaaggca	300
tggaccacca	tgcccagccc	cacagccaaa	cttcttgaaa	gaatgggtcta	tatttactat	360
ctttactttc	tgaccttcta	ttacctctc	aaccctactcc	accagaccac	cacatatggg	420
acttcccagg	gctccagcct	gggtgccctc	ttcttttaaat	actcagtact	aatgaaaaat	480
aaattcaaca	tataggagct	gccttttctt	gactcctccc	tccttttgct	catcttcagc	540
tctctattcc	atccctctct	tcagcagaac	aagagattgt	gtttgtgtgg	tgggtgagggc	600
aggagaggct	aagaacagga	ttggggggacc	aagagtatag	caggggagat	gggcccctatc	660
tatcagccca	agccctcagc	agctctttac	acagccagtt	acctgtggca	gcaagagggg	720
gaaagtcttg	agagcacaga	agagggaaga	agggggagat	gaaaggaaat	gtgctgaaag	780
agtacagctg	taagactggg	tggcaatgga	cctggcgggtg	gtactggggg	cctgagattc	840
acaggtgggg	gtgtaagaat	tgggtggaggt	ggggggagtc	caggaggagg	tgggtccttca	900
acaacaggag	gctgtgctgg	gaaaggcagc	ataccaggaa	gattcacatc	ttctacaact	960
actggatcac	ttccatgac	aaaaggacac	atgtctcctc	tcatacaaaa	accctttttca	1020
tcatagtctc	tacaccgttt	ctttggcatg	gggtgtctta	cgtaagagtt	atgggtccact	1080
tgggtcttcat	gaaattcaga	ccaactttcg	gtagtgttgt	ttccatgatg	agtaggagca	1140
attactgtaa	tagtgctgct	caaagtaggt	acagggtagt	ggccagatga	aatactaggt	1200
accgaagaga	ctggagtata	attattttct	aatggatctg	ttctatccag	gtcatattta	1260
ggttttacca	gatccctttc	cctgcttctg	gttctgcttc	tgcttctagt	cctgcttcta	1320
tctctgtccc	tctcacgaag	cctctcttta	ctccaacttc	gacttcgact	cctgctataa	1380
ctgcgactcc	gccctcgtct	tctattgtac	cggtctctgt	atgaatctct	tccttcttta	1440
tatctttttc	ttgggtgtgga	aaaaattcta	ccttcaggct	tcctgatgat	ggctgctctg	1500
gaggaggtag	gtaactcttt	gtattcacag	catcaaaaag	tttttccaca	aatatctgtg	1560
tctcttttctg	aagaaatata	tccagctgat	caatacataa	tgcttttaac	tctttttcac	1620
ttttgtcttt	ctttaccaaa	gccagaacat	attttgctag	ggcggatgga	tctgcatcac	1680
agatgggctc	gagagctttg	ctgagccagg	acttgagtgc	ctcgaagttt	tcaatgatca	1740
ttttagaaac	catccacagc	ggccctaagg	cccgtcacac	tcctccgccc	gccaggtcgc	1800
c						1801

<210> 230
 <211> 2007
 <212> DNA
 <213> Homo sapiens

<220>

<221> SITE
<222> (1991)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1992)
<223> n equals a,t,g, or c

<400> 230

gccaacatga	gccaccgcac	cgggccctct	ccatcttcct	tgaacgaccc	cattcaccta	60
ctgctcctat	ttctaagact	gtgaccaaca	gagcactgga	gcatgcagca	gcacacagac	120
ccccgcgcca	gatgcctcgt	cgtctgggac	cccatgcttg	ccccagggtcc	cttggggccac	180
ataactaatcc	ccctctggag	accttgaggg	aggtaagatt	gggaattagc	aatacctgaa	240
atgtgttaat	tctctagggtc	atgtttgact	ctactccagt	cctcgtcgcc	ctcttctctc	300
acccagact	tggtgcaagc	tattccctct	gcctacaaca	ctcttctctc	ccatgtttac	360
ccamctcata	accactgac	ctttaggcct	cagcttttct	caaccccat	gcagccattc	420
aacagaatct	ggsctgtggm	aggctctctt	ctaggtaacg	aagtgsattc	cttgccagcmt	480
ttagggaccc	agggatcaaa	gggctccgca	attaactttg	acacwtgggt	tccaagatcg	540
ccctgaccct	gaatrtccca	aggccagaca	ggagaagagc	gaaattggag	ggctgtgtga	600
gaggcatttt	ggattgggac	tggaggtagg	gaacatccct	ttagccttca	ttccactgcc	660
tggatagctt	tcacatggcc	atgcctaata	gccagggagg	cttatgacca	tggtcagaaa	720
gtcagctgtg	tttccagggt	gacaaaggaa	caggtttgtg	aatcatcatg	gtctgaagtt	780
cctggtacac	gggatccatt	tcactcatct	tgctcatag	agaaccctca	ttctcacctc	840
ccacaaggga	gaaaatgcaa	agtttcatgc	agtcactgca	cagagtcttc	cagtgatgtg	900
catttctgga	catcaagcct	gaaagcggta	catcatagtt	tgtcaatgta	aaaactaaaa	960
taaaaccgta	acaattcccc	accacacacc	aaaaaatacc	taacatcagg	ttaatgttac	1020
ctccctycct	gagtacagaa	acaggatacg	cacaaggaaa	actgccatta	gaaaggggaag	1080
gtttggaggc	ccatggcaag	ttcctgggtcc	acaagcaatt	atwaaactct	tctgggcagg	1140
tactgtgaag	tcctcatact	cctgctgggt	caaaccaaaag	gacccaaggt	tgttttaagc	1200
atgacagtta	aaggagtttg	gggtccctagc	atgagctgat	tggtttcttg	gcaatgcaag	1260
tttctcagaa	atgtaatagg	ttctgatgac	ttgtttctag	ttatttccat	gtatccatag	1320
ccatgtccag	agtttcttgt	tgtacataat	tccttaactt	gatgaattat	gctttctagt	1380
tcatagactt	ctctctctct	aatgatagag	tttatgcaaa	accatcagac	acaggtggga	1440
agattacacc	tattattatt	acaccaatta	tttcatcttt	tctacagggc	tcagtcttaa	1500
ctggccactt	aaaggatttt	tcatacttat	tttctattat	tgagctttag	gtacaatcag	1560
ctttttcaac	cctgtgaaat	accaaatttc	trrgtrtct	gttctctata	tcattttatat	1620
cattttataaa	ctagcccttc	cttccctrar	cctawttatc	tcctctaata	agcttttttaa	1680
aagcacaact	aacaggccag	gcacagtgtc	cacgcctata	atcccagcac	tttggggaggc	1740
caaggcaggt	gaatcacttg	aggccaggag	ttcaagacca	gtctggacaa	catgggtgaaa	1800
ccccatctct	agtaaaaaata	caaaaattag	ctgggcgtgg	tggtgcacac	ctgtaatcct	1860
agctacttgg	gaggctgagg	cacaagcatt	acctgaacct	gggaggcaga	ggttgccagt	1920
agccgagatt	gcaccactgc	attccagccc	gggagacaga	gcaagaccct	gtctctgaag	1980
gaaaaaaaaa	nnaaaaaggg	cggccgcg				2007

<210> 231
<211> 788
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (274)
<223> n equals a,t,g, or c

<400> 231

ggcagcagaa	accactatgc	ttaatgttaa	catgattctg	tttggttaata	ttttgacaga	60
ttaagggtgtt	gtataaataa	tattcttttg	gggggagggg	aactatattg	aattttatat	120
ttctgagcaa	agcgttgaca	aatcagatga	tcagctttat	ccaagaaaga	agactagtaa	180
attgtctgcc	tcctatagca	gaaagggtgaa	tgtacaaact	gttggtggcc	ctgaatccat	240
ctgaccagct	gctgggtatct	gccaggactg	gcanttctga	tttagttagg	agagagccgc	300

tgatagggtta	ggtctcattt	ggagtgtttg	tggaaggaa	actgaaggta	attgaataga	360
atacgctgc	atttaccagc	cccagcaaca	caaagaattt	ttaatcacac	ggatctcaaa	420
ttcacaaatg	ttaacatgga	taagtgatca	tggtgtgcga	gtggtcaatt	gagtagtaca	480
gtggaacctg	ttaaatacat	aacctaat	tccygggact	gccatatttt	cttttaactg	540
gaaattttta	tgtgagtttt	ccttttggtg	catggaactg	tggttgccaa	ggtattttaa	600
agggctttcc	tgccctcctt	tctttgattt	atttaatttg	atttgggcta	taaaatatca	660
tttttcagg	ttattctttt	agcagggtga	gttaaacgac	ctccactgaa	ctgggtttga	720
cctctgttgt	actgatgtgt	tgtgactaaa	taaaaagaa	agaacaaagt	aaaaaaaaaa	780
aaaaaaaa						788

<210> 232

<211> 1049

<212> DNA

<213> Homo sapiens

<400> 232

ggcacgagga	cacataagac	agctacaaaa	cccctgttct	agtggaggaa	ggcagacagt	60
aaagaagcag	aacaatagag	aatgtaagag	ccaagtcaca	atgaatgcta	ttattattaa	120
gtaaaatcaa	gataaggggg	aggaaggaca	aatctcctct	acagaagaat	gccaaataat	180
ttatggagat	atgcgaagac	gtttcagaac	ctaattgtccc	attctctaag	tgtggcctgt	240
gtttactgac	tttcttcac	agagtatgg	atggaaggag	gaggaaaagt	gacttcacag	300
tgggcaaaagc	tgatgaacat	tagcttggcc	aagtattgga	gatcaacatc	aacagttata	360
agtcatattg	atagtatgtg	ccctgatagg	atgtgatgag	aagggtactt	cccctctgtg	420
gtcctcctc	tcaaaacctg	taacccag	ctaaatagca	gaaagacatt	gcacaaaccc	480
agagtggagg	actctcaaga	atgcctgacc	agaggaacct	agaatgagg	actcaatgta	540
agcaaggaca	gtctgagaaa	cgtcacatcc	agaggaacct	agaatgagg	actcaatgta	600
aaagggrrtc	tggaacagaa	aaaagacatt	gggaaaaact	aatgaaatct	gcccacagtg	660
tagagtttag	tttagttaat	aacaattttt	aaagaggat	taaaaaaaaa	aaaaaaggca	720
ggtgaaggcc	ggtgtggtgg	ctcacgccta	taatcccagc	actttgggag	gccaagggtg	780
gaggatcatt	tgagctcaga	agtttgagac	cagcctgggc	aacatggtga	gaccccatct	840
ctacaaatac	taaaaaatta	gccgggtgtg	ctggcatgta	cctgtgttcc	tagctactcg	900
ggagcccagg	tggtcaaggc	tacagtgagc	catgatcaca	ccactgcact	ctaggctggg	960
tgtcagagca	agacctgtc	tcaaaaaaga	aaaaaaaaaa	aaaaaaactc	gagggggggg	1020
ccggtaccca	attcgcccta	ggaaatgga				1049

<210> 233

<211> 1098

<212> DNA

<213> Homo sapiens

<400> 233

ggcacgagcc	ggatcctctt	cattcttttt	ggctactcaa	ccactccgca	tgtgtctgga	60
atatttctgg	ctttagaagt	acaggagggc	gcagatggct	aactgagtaa	cattcatgaa	120
atgaggcttt	ctgtggcggc	gtagtgtttg	gaattagaag	gtaattcagt	agagtgtaac	180
ttagagaata	ttgcaagtga	cacattgaat	cctgcccgtc	agggaccttt	tcctcagagc	240
aatccggcca	cacgaataga	aggctgtcgt	gaatcacatc	agatgtaaaa	tcattccttc	300
tgtttactct	tttaattttt	atccttttga	ggtagtgcga	attcaacttc	aaatatggtg	360
taggttttgc	tagattccat	atttttttct	tggttttttg	ctaattattt	ttagcaaaaa	420
atttttgctc	agtggcaccc	tccttagtgt	ccatgggtta	gggccatgct	ggggaaaacg	480
ggcgggtatt	tacacacgcg	caaaacaccc	agagacggca	caaggaggtt	gaactcatgt	540
ttcagttcgc	gaacattgac	tccttacgaa	agtcacttca	ttctaactag	atgcgccac	600
ttccggtcat	tatttcgttt	gcatgatgta	ttgcttcttc	acgttttgtt	tttattgagc	660
acggagtaga	attccagggc	tgcccttgact	tcttccttgc	atgctccctc	ccagtgactt	720
tccttccttt	tcacatgagg	atctgccgtt	catgttgctt	tctcctttgt	cctcttggac	780
ttgagggcat	tgtgaaaagc	tttgctgtga	tttaaaaatg	ccagcaattt	taatctagca	840
gtgttgaagc	tggaattttt	ttggcgcaat	ccatgtagca	gtgaccagg	cttgggagcc	900
agaaacaagt	gtgacctggg	attttattta	acacaactgt	tgccaaagag	ttggctttgt	960
ttatttggtt	ttggcgggga	gaggagtgg	atttgatgct	ttctgtggac	aatgtaaccc	1020
taaacacatc	atgtatttta	aatgccacct	acataaataa	aacataagca	tattgaatac	1080
aaaaaaaaaa	aaaaaaaa					1098

<210> 234
 <211> 797
 <212> DNA
 <213> Homo sapiens

<400> 234
 ggcacgagcc cacctgactg acaaaaaaaaa gagcaatcct ttatgcctct gtcctcccc 60
 agttattcta ggttctggtc ccttacacct ggccaagctg tcaggattta ttatggcatc 120
 ttgttcagct aatttaagcag tacaactgag acaattgccca cccattttgt catgtgtggt 180
 gccttccaag atagcccca gtgattctca cctcctgata ttcacaccct tgtgtgtgtg 240
 cctcccatgt cataccaagg ttggtctttg tgataaaatt caggggaagtg atggtgtgtg 300
 acttgtgaca ctagatccga aaagacacgg tgatgtctga cttgttctct tggatgtctc 360
 tccctgagtg aagccagcta cttttcatga ggatactcaa gcattcctat ggagagatcc 420
 acatggtgag aaactgaagc ctccctacca gagccagcac caacttgcca gctatgtgaa 480
 tgagccatct tagaagtggg ttctctagcc ctagtcaggc cttcatatga ctgcagccag 540
 ggctgatatt ttgactacaa cctcatgaga gactgagcca caacaaccta gctaagaagc 600
 tcctgaattc cctaccaaca gaaactatgt gagataatgt ttgttgtttt aactaagttt 660
 tcaagtggta atttgttata cagaatatgt aactaataaa gcatggctcc tttaggtcta 720
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780
 aaaaaaaaaa aaaaaaa 797

<210> 235
 <211> 652
 <212> DNA
 <213> Homo sapiens

<400> 235
 ccacgcgtcc ggagatgact catggaaaaa ttgtgttggc ttggtctgca tgtttaatga 60
 tgtgcttgta tatcgattag ctgtgtcact tttaaataag aagtcacac aagcaagcca 120
 aatttttaga tgacgaagtc cataaataac tagagaattt ttgttatctg ttgttaagtt 180
 gaaatgtata atcattttatc actaaattgc acattgcctt tattttattg tgctctgttt 240
 ttggtttaca gtgtaataat acctcattta aaaaataaaa accactactg ttacatttta 300
 ttaattttaa aagctagaaa attcatgtag ttactttttt tacatatata atctgttaat 360
 gaattattga tttttgtatc tgccacagta aattaaagca ttacacagta tttatcagta 420
 ttttttaaac atcctgtcct tttttaaaat ctttgcttag tcagtcatat ttttgtctgt 480
 atgattagaa gtttttacgt ccttcctttt ttgtacaaat ctgtattgta ttaatttctg 540
 gatgcaattt ttcaaattat aaaattatac agtcagtcag gcttcagttt attttttgaa 600
 cacttgggca attaatataa gccatatgtt taaaataaaa aaaaaaaaaa aa 652

<210> 236
 <211> 1815
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1115)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1119)
 <223> n equals a,t,g, or c

<400> 236
 gagctgaacc acgtcttcaa gaaagaagcc aaaaatattt ccgtgagggt tttaactacc 60
 tctgaatctg tctactcta aatactaccg gagtctcttt gtaggttggc cagtatatgt 120
 ttttagtgaa atattatttc acaaagaact atatcacgta cctttcctct gactgtttcc 180
 tggcatatat gcatgaatat ggccattatt gaactatcac ttcagtaaag aagttaaaca 240
 gtacttttct gaggtttttc agctacctct gggtcattct gtaatgtaaa tgttgtaaat 300
 aagaatgggt tttacataaa ttatgcaaag gtaacaagc agtaaacactg cactcctcaa 360

aaagtggcgg	tatgtaatga	aaggcccttt	tgatatcctt	gatttttcat	tgtgtatctg	420
kttgggcacg	gtctatgtaa	cactagtctt	gcgtattagt	attttagagt	atctctgcct	480
cccttgctct	gttgtttctt	ttgccccctt	ggaacacatt	ggtcagcagt	tctaagagac	540
actgccacaa	tgatggccat	tccctacttc	atccttgctg	agctaaattt	tatatTTTTg	600
tgcatccttc	tcccagatga	cttaggtggt	aagtccagat	tagtcaaagc	taatcatgga	660
agttccattt	taatgattct	gttgggggtg	acttgggagc	aatgagatgt	ttgggaagta	720
ttgtgtagta	cttctgggaa	agatctcctt	gatacaacat	tgatcatgaca	tgagaagaga	780
ctctgctggg	ctttttctag	tctgtaacct	ggtagtggtt	tatcgTTTTt	atctctgaag	840
ggcagtagcc	tgaagataac	agtgacaaag	tggggaaaag	ccagctcaga	ggtagcgttg	900
ccgagctact	ctgctctcta	tacctgttct	ctactggggac	tttttataac	cctcaataac	960
tgTTTTTTat	ttggtcttag	ggctgtctga	tacttagagc	tgaaggcatt	ccagctgaca	1020
cagaggaata	tttttctaag	tgtaaattgt	ctatatggta	attaggggga	agaattattt	1080
cttttcacaa	gttaatatag	ggatggctgt	ttgtntcanc	catggttctt	tctggtggaa	1140
aacagaattc	tccaactaaa	aatattttta	tggcagactg	attacagtgg	tgtgggccag	1200
aaacaaggga	cagtgaaaac	cccagagact	tgtatcacga	ggaagccatt	gccattctga	1260
gccttgaagg	gcaaggaggg	aaacagtgtt	accagagccc	agtaagaact	gctgtcatga	1320
aggagggggc	accttgtaag	agacatcatt	actaccagaa	ctgtgggtgc	aaattgctgg	1380
tgtctctctt	tggagaaacc	aaccagatac	atctgtctgga	gagcccaggt	gggcacagag	1440
aagggtggag	agagaatctg	ggaagagaaa	tggagaataa	gcagcacagt	gttattcatt	1500
tctgtaaatt	cctatgtaga	aggctcagtg	ttagaaataa	agttattcta	ctagttgcaa	1560
gttaagtgtt	tctgtttgtt	ctgctttcct	gttagcataa	gtaaactccc	tttggaaacta	1620
cacaggtatg	tctctccttc	aacatgtgtg	aagcagacat	tatatttaaa	tacattattc	1680
atacctccct	gtgggttttc	ttattgtatg	tggtgtaagg	taagcagctc	tgtattcttc	1740
caactaaata	gccagttgtc	cctgmaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1800
aaaaaaaggg	cggcc					1815

<400>	237						
cgccaagttt	ccggaggagg	agggtagaaa	ctggaggggg	tggacctgtc	actcacggga		60
ctgaggggtcc	ttttctcccg	ctcccaggag	gaacgagaat	gaatatgact	caagcccggg		120
ttctggtggc	tgcagtggtg	gggttggtgg	ctgtcctgct	ctacgcctcc	atccacaaga		180
ttgaggaggg	ccatctggct	gtgtactaca	ggggaggagc	ttactaact	agccccagtg		240
gaccaggcta	tcatatcatg	ttgcctttca	ttactacgtt	cagatctgtg	cagacaacac		300
tacaaactga	tgaagttaaa	aatgtgcctt	gtggaacaag	tggtggggtc	atgatctata		360
ttgaccgaat	agaagtgggt	aatatgttgg	ctccttatgc	agtgtttgat	atcgtgagga		420
actatactgc	agattatgac	aagaccttaa	tcttcaataa	aatccaccat	gagctgaacc		480
agttctgcag	tgcccacaca	cttcaggaag	tttacattga	attgtttgat	caaatagatg		540
aaaacctgaa	gcaagctctg	cagaaagact	taaacctcat	ggccccaggt	ctcactatac		600
aggctgtgcg	tgttacaaaa	cccaaaatcc	cagaagccat	aagaagaaat	tttgagttaa		660
tggaggctga	gaagacaaaa	ctccttatag	ctgcacagaa	acaaaagggt	gtggaaaaag		720
aagctgagac	agagaggaaa	aaggcagtta	tagaagcaga	gaagattgca	caagtggcaa		780
aaattcgggt	tcagcagaaa	gtgatggaaa	aagaaactga	aaagcgcatt	tctgaaatcg		840
aagatgctgc	attcctggcc	cgagagaaag	cgaaagcaga	tgctgaatat	tatctgacac		900
acaaatatgc	cacctcaaac	aagcacaagt	tgaccccgga	atatctggag	ctcaaaaagt		960
accaggccat	tgcttctaac	agtaagatct	attttggcag	caacatccct	aacatgttcg		1020
tggactcctc	atgtgtctttg	aaatattcag	atattaggac	tggaagagaa	agctcactcc		1080
cctctaagga	ggctcttgaa	ccctctggag	agaacgtcat	ccaaaacaaa	gagagcacag		1140
gttgatgcaa	gaggtggaaa	tgttctccat	atcaagatgt	ggcccaaggg	gttaagtggg		1200
aacaatcatt	atacggactc	ttcagattta	cagagaactt	acacttcatc	tgttccacct		1260
ctcctggcat	agtccctggg	gtcctactga	ttggaggata	gagccagctg	tctgacacac		1320
aaatggctct	ttcagccaga	gtcttatcaa	gtatcctata	tgtattcctt	tctaaactgc		1380
tactcatgaa	ttcaggaaaagt	ctgatgtctaa	gatactgctt	gactgtggaat	gttaaacact		1440
aaatatataa	caagctgtgt	tttcctaagc	tgaaaaaaaaa	aaaaaaaaaa			1488

<213> Homo sapiens

<400> 238

cgcccggtgtc	acagctggga	atgatgaggt	ggrggctgct	gctcaggctg	caggcatcca	60
tgatgccatt	atggctttcc	ctgaagggtg	caggacacag	gtgggcgagc	ggggactgaa	120
gctgagcggc	ggggagaagc	agcgcgtcgc	cattgcccgc	accatcctca	aggctccggg	180
catcattctg	ctggatgagg	caacgtcagc	gctggataca	tctaatagaga	gggccatcca	240
ggcttctctg	gccaaagtct	gtgccaaccg	caccaccatc	gtagtggcac	acaggctctc	300
aactgtggtc	aatgctgacc	agatcctcgt	catcaaggat	ggctgcatcg	tggagagggg	360
acgacacgag	gctctgttgt	cccgaggtgg	ggtgtatgct	gacatgtggc	agctgcagca	420
gggacaggaa	gaaacctctg	aagacactaa	gcctcagacc	atggaacggg	gacaaaagtt	480
tggccacttc	cctctcaaa	actaaccag	aagggaataa	gatgtgtctc	ctttccctgg	540
cttattttcat	cctggtcttg	gggtatgggt	ctagctatgg	taagggaag	ggacctttcc	600
gaaaaacatc	ttttggggaa	ataaaaaatgt	ggactgtgmr	aaaaaaaaaa	aaaaaaaaaa	660
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	720
a						721

<210> 239

<211> 1842

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1134)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1210)

<223> n equals a,t,g, or c

<400> 239

aattcggcag	agtttgggtc	tcagctgcc	cctcccttcc	ttggatgctg	tcccaaccac	60
cccattccaa	aagaggttat	cgcttgtgat	tctctatcac	tgggccaaat	ctgcctgttg	120
cctagtgtct	ctagcccttt	ctatattaat	tcatttcatt	atttcagccc	tgtctctctc	180
actaggatat	aagctgcacg	agagatgggc	tatgtctctt	actcactgtt	gggcctccca	240
ggacctcagc	acagggcctg	acacacagta	rgtgggttaa	tagatactga	ttgaatgaaa	300
gaacaagggtg	ggtactaaaa	tccccctttt	aaagaggagg	cttggagtta	tgagggttga	360
cgagcaaagc	ttattcccta	actaccacag	tccccccctt	gcagccaggg	ccgggatcat	420
accacaattc	cctgcccata	aagctgtcat	gaatagccct	aagatatcag	gaagcacaaa	480
gatatcaatg	ccaggaggga	taggaggagg	cggccaagaa	accccggaat	tgtacttaaa	540
awtctggcta	cgcaaactgc	ttgcccact	ttagacacca	tgatgaatga	tcagggtgctg	600
caaccatgaa	acatgacgta	attagtgtctg	cactcttggc	tgggggttgg	cttggaggcc	660
ccacctcgag	gttagcctcc	cccagagggt	cactgcacga	rgcagtctgg	tgcggggttg	720
gggttacaac	agagggagggt	ggaatcagac	cactcggcag	ccctgtgacc	attatgtgca	780
cttttatata	aaggatacaa	aagacaccaa	tactggggaa	tttattttaag	aatacttcta	840
ggatgtgtcc	tgtgatgcct	cagggtctatg	tcccacattt	tcttaaattct	atagtcctgt	900
gtaataagar	agartatttg	aaagatttag	caattaattg	gtctaacaaa	aagaattcta	960
tttctgcagc	cccaggatgtg	gaagaaagag	ccagaactct	gtggtgcagg	gcttttagact	1020
tgcttcagg	cttctttccc	ctgggtcttc	tggatcttgc	tgccctggcc	atgaaaggga	1080
aaggataaag	gaagtttgtt	cccttaagac	cttgtgctgc	cctgtgctat	ctgnttctgg	1140
ccaacctgaa	tttgagaacg	cttcttcagt	ttgcatctgt	gtgaccttgg	gcaagatagg	1200
aactgtctgn	atctgtctct	tcagctaccc	accttgtaaa	gcagttgggc	accatagagt	1260
agctgtctgc	acagtgggggt	attctcttac	catcaatatg	gctggcatag	tcattctact	1320
tctcctttac	ttgggccctt	gcctaggcca	ctcagcctcc	ccagagcagg	ccccctctca	1380
gtcccaaggc	ctcctaggcc	taggtgtctg	ccctagctgg	agaaaggcac	aagaagaaaa	1440
caccagtcaa	tgggagaaaa	gtcccccagg	ccagtcttcc	acctagagcc	cctccccctt	1500
ctcaccacaa	agrttgcttc	actgagggcg	gggcgcagtg	gtcacgcct	gtaatyttaa	1560
caytttggga	ggccaagaca	ggcgatcact	tgaggtcagg	agttcaagac	catcctgacc	1620
aacatggcaa	aacccgcct	tcattaaaaa	tgcaaaaaatt	agccaggcat	gatggtacac	1680

acctgtagtc	ccagctattg	gggaggctga	agcaggagaa	tcgcttgaac	ccaggagggtg	1740
gaggttgacg	tgagtcgaga	ttgcgccact	gcactccagc	ctgggtgaca	gaatgagact	1800
ctgtctcaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaactcgt	ag		1842

<210> 240

<211> 1427

<212> DNA

<213> Homo sapiens

<400> 240

gaacatttca	agtagcctcc	ctctatgttc	ctttcctttt	taaatatatt	gataatccta	60
ctgcagggaa	tttgggagcc	atacttggtc	ttcgcgatgca	acgtaattag	atataactat	120
actatgtgaa	tatgactaaa	gaaatgaaaa	tgaaaacagt	atcttgtgct	ctgtaacgat	180
tgttattaaa	tatatcatag	aaatgagaag	agtaggctca	ggagctgaac	tgccatagttc	240
aaaaggccaa	atttactact	ttttgttccg	tgattgaatt	tgttgtgctc	ctgtttcctt	300
agttgtaaaa	cagagataac	aataggacgt	gcccataagc	ttttcatgag	gattaaatga	360
gttaatgtgt	ttggtgggga	ccagggtggac	atgggtactgg	tagggcccta	tttgacattg	420
gctttaagta	tcattggcct	taagtgcac	agtagatata	tgatgacaat	aattgtatta	480
tcattggtgat	atggatttct	tataaatact	tgtattatgt	tagtcacttc	tagaaaagaa	540
tacatctata	cagtagaata	taattcaaaa	aataatgtca	tatttttgta	aagaaatttt	600
ttgtaaaact	tttcagtctt	caaagagttt	catagacttt	attccattta	tattgagagc	660
ctactttgtg	ttaagcattt	tgctgaacat	tgtcctcact	cttatgttac	ttaccatcta	720
ttgggaagag	aaagaagtaa	acaaataaatt	acatgtagag	tagtagtgct	aatggtagag	780
gcattgaacac	aacacagatt	taacactaga	gaaagagtga	tcacaaaaga	aatgatgttt	840
cagttgagtt	ttaaatggca	gctggagttc	atctgaatga	ttaggtgtct	aggacaggtt	900
taaagggttag	ggagtaagga	agataatatt	caaaataaaa	agaacctgag	gatattcaca	960
gaggacattt	gcagaggcct	gaaatagcat	tggtacattc	ctagaacat	aaatagtttg	1020
atggtaaatgt	aaattacagt	atgttttgaa	aaatcatgga	agattttatac	cacgatagaa	1080
acttcaactt	tattctaaag	ttgatgagca	tttgacagat	tttaagcaag	aaacaaatat	1140
taaattttata	ttttagaaag	attctagata	cataaaaagc	acttattata	atccagtatc	1200
cattcatgat	aactctcagc	taactggaaa	taaaagggaa	cttccttagt	ctaaggaaga	1260
acatctacat	aaattctaca	accagccaca	tacttaatgg	tgaaataatg	aatgtttttc	1320
tcctaagatc	aggaaaaaga	aaaagatgtc	tcctcttact	tctattcagg	atggtactgg	1380
tagttcaggc	cagtacagct	atgcaaaaaa	aaaaaaaaaa	aactcga		1427

<210> 241

<211> 1768

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1743)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1744)

<223> n equals a,t,g, or c

<400> 241

cccgaattt	ccgggtcgac	ccacgcgtcc	gtttgaggat	gagccacctt	tattagaaga	60
gttaggtatc	aattttgacc	acatctggca	aaaaacacta	acagtattac	atccgttaaa	120
agtagcagat	ggcagcatca	tgaatgaaac	tgatttggca	ggccaatgg	ttttttgcct	180
tgcttttgga	gccacattgc	tactggctgg	caaaatccag	tttggctatg	tatacgggat	240
cagtgcattt	ggatgtctag	gaatgttttg	tttattaaac	ttaatgagta	tgacaggtgt	300
ttcatttggg	tgtgtggcaa	gtgtccttgg	atattgtctt	ctgcccata	tcctactttc	360
cagctttgca	gtgatatttt	ctttgcaagg	aatggtagga	atcattctca	ctgctgggat	420
tattggatgg	tgtagttttt	ctgcttccaa	aatattttatt	tctgcattag	ccatggaagg	480
acagcaactt	ttagtagcat	atccttgccg	tttggttatat	ggagtctttg	ccctgatttc	540
cgtcttttga	aaatttatct	gggatgtgga	catcagtggg	ccagatgtac	aaaaaggacc	600

```

ttgaactctt aaattggacc agcaaactgc tgcagcgcaa ctctcatgca gattttacatt 660
tgactgttgg agcaatgaaa gtaaacgtgt atctcttgtt cattttttata gaacttttgc 720
atactrtatt ggattttacct gcggtgtgac tagcttttaa tgtttgtgtt tatacagata 780
agaaatgcta tttctttctg gttcctgcag ccattgaaaa acctttttcc ttgcaaatta 840
taatgttttt gatagatttt tatcaactgt gggaaaccaa acacaaagct gataaccttt 900
cttaaaaacg acccagtcac agtaaagaag acacaagang gccggggcgtg gtagctcacg 960
cctgtaatcc cagcactttg ggaggccgat gcgggaggat cacaagggca ggagatcgag 1020
accatcctgg ttaacacggt gaaaccccga ctctactaaa actacaaaaa aaattagctg 1080
ggcgtggtgg cgggcgcctg tagtcccagc tactcagrag gctgaggcag gagaaaagtg 1140
tgaacccagr agscggagct tgcagtgasc cgagatcaca ccactgcact ccatccagcc 1200
tggttgacag ggtgagactc tgtctcaaaa aaaaaaaaaa aaaaggagac acaagactta 1260
ctgcaaaaaa atttttccaa ggatttagga aagaaaaatt gccttgtatt ctcaagtcag 1320
gtaactcaaa gcaaaaaaag gatccaaatg tagagtatga gtttgcactc caaaaatttg 1380
acattactgt aaattatctc atggaatttt tgctaaaatt cagagatacg ggaagttcac 1440
aatctacctt attgtagaca tgaaatgcga acacttactt acatattaat gtttaactcaa 1500
ccttagggag ctggaatggt tgcattaatg ctataatcgt tggatcgcca catttcccaa 1560
aaataataaa aaaatcacta acctttttta aggaaaaatat ttaaagtttt acaaaattca 1620
atattgcaat tatcaatgta aagtacattt gaatgcttat taaaactttc ccaattaatt 1680
ttaaaaaaaa aaaaaaaagg gcggccgctc tagaggatcc ctcgaggggc ccaagggttac 1740
tcnnaaagag tttcccttaa agatcccg

```

```

<210> 242
<211> 840
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (789)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (805)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (836)
<223> n equals a,t,g, or c

```

```

<400> 242
gtctgtctcc tactggcaca acagaatttt ggctgggaaa tgagaagatt catttgataa 60
gcacacagtc tgccatccca tatgcattaa gagtgggaact ggaagactgg aatggcagaa 120
ccagtactgc agactatgcc atgttcaagg tgggacctga agctgacaag taccgcctaa 180
catatgccta ctctgctggt ggggatgctg gagatgcctt tgatggcttt gattttggcg 240
atgatcctag tgacaagttt ttcacatccc ataatggcat gcagttcagt acctgggaca 300
atgacaatga taagtttgaa ggcaactgtg ctgaacagga tggatctggt tgggtgatga 360
acaagtgtca cgctggccat ctcaatggag tttattacca aggtggcact tactcaaaag 420
catctactcc taatggttat gataatggga ttatttgggc cacttggaaa acccggtggt 480
attccatgaa gaaaaccact atgaagataa tcccatcaa cagactcaca attggagaag 540
gacagcaaca ccacctgggg ggagccaaac aggctggaga cgtttaaaag accgtttcaa 600
aagagattta ctttttttaa ggactttatc tgaacagaga gatataatat ttttcctatt 660
ggacaatgga cttgcaaagc ttcacttcat tttaagagca aaagacccca tgttgaaaac 720
tccataacag ttttatgctg atgataattt atctacatgc atttcaataa accttttgtt 780
tcctaagana aaaaaaaaaa aamwnngggg gggcccgkac ccattggcct tatgnggggc 840

```

```

<210> 243
<211> 903
<212> DNA
<213> Homo sapiens

```


0950082 091201

```
<400> 243
ccacgcgtcc ggatgaatta gaagaaagag gtttggggac tcagcggata ctagttcttt 60
taccttctgc ttggttaactt agattaaact gagcattgtt tttctgtcac aaatgttttc 120
cttatgacac tggtttcgac atgtaaaatg tgtttgaaaa cctgctttgt agatgcagag 180
agaagctata ggaaaccag taccaccctt ggtctgttct gacgagacat cgttcataag 240
gcacagcaca tcgcaagatg aacagttgtt aataaaagct gttgctggaa acttgcttta 300
ggaacagctc aagaaccttg gagttcatat ttcacaaata ttaataaata taagtccaag 360
agctgtcagc ctaatctgta ggagcagaac ctctgattga ccaaaaggca tatgggttta 420
ggttggtttt ttgatgtcat atgtctctga tggggctgca agtgctacct cgcgcttgta 480
cactgctgct gtggggctcc gcgcctgccg gtgaagagct gcagatgccg agaagccagc 540
aaacacaggg cccactggaa aaaaatagtt ttttcattag tatttctcgg gaggacccaa 600
aagttaaggt cagcttgctt actgtaattt ctggaagaag ttcactcaga ccttcctgaa 660
ttcagatcat ctcagaagtc tggagggaaa tctggcgaaa ccttcgtttg agggactgat 720
gtgagtgat gtccacctca ctggtggcac cgagaaactt acttccttgt attaagtgca 780
cttcttgat ttctaataag atgactttcc agaaagtgag atttgttatg ttctggcttt 840
taaaaggtaa aatataaata aatttcataa cttaatctaa aaaaaaaaaa aaaaaaaaaa 900
aaa 903
```

```
<210> 244
<211> 976
<212> DNA
<213> Homo sapiens
```

```
<400> 244
ccacgcgtcc gtgaagattc aagtcagttg ttcagttact tgaagcaaaa cgaaatcttt 60
catttcagtc aaatcactgc agtcatgaaa tactgaacaa ttgccttaag tctttgcttg 120
actcactggg atagactgag gctttgggtg tgtctgtatt agcatttcat tagtacttca 180
catgcttttg atgtactctt gagattgctt taaattttgt attgaaacaa caatacattt 240
tgcactgtag taatgggagc actaactctt acaacagtta gtgaatcgtt ttaaagaatc 300
agttcagtg agacattttg aaaagattgt ttctgtgtct ttacgatagc ttagtgcaat 360
gtgcacttct gttttacttg ccatttttct gctctgtttc tctgtgacat gaagcaacag 420
aaactgagat caaagttaag attatatact gttttagta tcagatattt ttctgtgtac 480
aattatagga ttgtaatcta aactggaatt tttaggcagt aagtcaccac aaaatgtttt 540
agataagaca caataaaatt attataaata aaagcttaat gtttgtaaaa aatctctttt 600
ttagtatttc ttttttcaca tgaaagaagt ggtggctgct aaaaaaaaaa ctacagtgtt 660
tattaagggt ctttttgatt tatgtaaata tttgtaaatt ggtcagtgcc tgtaaattta 720
aatataaaaa gtaaccttga aaacagtttt aactttttca aaagaactat gtccaacatt 780
tttttagacct gctgtagtag agttttgtac ctctaacgta tttttttttt gcagaccaa 840
tgctaaaact tttgcttttc tttgacttgt aaaagggtgca catttttcatt ttcttcctta 900
agttcaaatt tttgtatgat gtcaaattgca ataaaattta tatatggaca aaaaaaaaaa 960
aaaaaaaaaa aaaaaa 976
```

```
<210> 245
<211> 622
<212> DNA
<213> Homo sapiens
```

```
<400> 245
ggcacgagcc ggaagaacct gcgggagtcg cagcagctcc gatgggatga gagctgggtg 60
cagactgtgc tcccttttgt tatggacaca taactcctgg gccagaggct aaaacccag 120
gacctctgct gtccttcccg cagcttcttc ttggagtctc agggcaaaacc ctttcgagca 180
gcacctccca gtggccagaa gctgaaatga cagcagtggt actgcctggt aaaagaattg 240
gttctgtgac ccgggaagct ttggttggcc ttgatttctt ctctggaggc ttggaaacgc 300
ttcctctctt cttctgttct tcacgcccc a tgcctctgct agcgtattac tgttctgtga 360
cttcctctgt acctctgcag aactcctcat cctgcgtttg gtctccagg gtcccctttc 420
tgccgtgttc ctaacatttt gattcctgtc ttgaaaaaag cacctgctgc accgtaagcc 480
cagggatgtg gcagctgcag tgggcttggc tttgtgagga actgagtggt tccacgttgg 540
gggaacatca tacttgatac acacgttttt atttgcacaa agaaaatgct gtttttggag 600
ccaaaaaaaa aaaaaaaaa aa 622
```

<210> 246
 <211> 1063
 <212> DNA
 <213> Homo sapiens

<400> 246
 ggcagagcta cgttccaggg attacggcat gaacatactg ttttcaggac cctatctagc 60
 ccaccatggt aaggaaacac ccaacaaaca tcatgcttat taagtttcca ggcaggtgcc 120
 tctctatccc agcttcattg ttgtgttctt ttcttcacaa gtattttcag agctgccctt 180
 ggccatctgg aagatgcatg gtgaaagaaa cggatgcttg ctctcagcac acacttcctt 240
 ccctgacagt ttgtcgcccta gcagctatct tggcttccca agggaaatct tgccttttgc 300
 ccttggtggg cttactgcaa atcaactcat catgaggaag attaatacag gaaaagacat 360
 acaatttttt ttttttaaac tgtgagcatg aagagaatca cagagtgtat actcaatccc 420
 caatgggggc aaaatacttc tgtaacctcc tttcagtgsc gaaggggaca tggaatgtag 480
 gtaatycgtg tgagcggtaa taagtgatga ytaggaagat tgaatggata cttggggagaa 540
 tgaatagggg gaggaacag agattgactt attaatggtt ccctttggaa attaaatact 600
 ccttgagac cagtcattac tttgtaaaaa agtctgtttg agcgggctta catcttaacg 660
 ttctttctct tagtcaagaa gaagatccca gggaggaggg gaaagtgaat tgtaataatc 720
 ccgacatgtt caggggagga ccctgtggga ggtcattgaa tgatgggggg caggtgcttc 780
 ctgtgttggt cttatgatag tgattaagtc tcacaggatc tgatgggttt ataaagccag 840
 gttccgctgc acatgccctc ttgcctgccg ccattggaaga tgtgcttttt ctccctcctt 900
 gccttcgcc atgattgtga gtcttcccca gccatgtgga actgtgagtc cattaacact 960
 gtttccttta tacattacct agtcttggat atgtcttcat tagcagcgtg agaacagact 1020
 aatacagaac ggaaaaaaaa aaaaaaaaaa aaaaaaactc gag 1063

<210> 247
 <211> 804
 <212> DNA
 <213> Homo sapiens

<400> 247
 ggcacgagct gatgtgggct gggggccagta ggggcaggac aggtgccagg ctggctgttc 60
 ctctgcatgc ctggtgcacc ctgtggccgc tagcccttgg ccaggccatc ctggtgcaga 120
 tccagtgct gccacaggga caccaccagg cacctcccta ggcaacgcca agcaggagga 180
 cctcaccac acccatggca aagcaaaaca aaagaggcac cccgaccca ttctacagaa 240
 gccccagtcc atggtcacct gtattctacc tcacactcca gcgtgggctt tttccaggat 300
 gtgccctgag cctgttctga acagctgtaa cccaactcc cccacacaat gtgtctgcct 360
 gggaggtaag taagtccaga ctgggtgtcc aggagctgga acccagagag cgtcctgtcc 420
 ctaaccagcc actgcagccc tccagctctg gccctcagct gcttgacagg acggactgct 480
 gggagatggc agccggttgg cagggccctt gccctcacac cccgctgcc aggagccagg 540
 tctgaacttc tgtgcacagg cctggccctt cagactcact cctgccaaga ggggccactt 600
 cttcagggtg agccccggct atcaggcagc cgtgagctcc agggcgggt gcagctcca 660
 tccccttgg ccatgtttgg agtaaaagga tcagtgaag tggaggagcc acttgggttc 720
 tcctaagacc agcccttccg gaggggccgg tcctggaaga aaccataat ccctggagtg 780
 tgaaaaaggg caaaaacggc acga 804

<210> 248
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 248
 gcacgagcgg cagcaggtgg agtctgcagt gagccgacgt cgtgctactg cactccagcc 60
 tgggcaacaa agcgagaccc tgtcttttaa gaaaatggtc ttttaagttca gtgtagccct 120
 taaaagtgat gtacatggat taaggactgg aagaaagtac tgcaaagtgt ttatatttgt 180
 atgcatggag agattacagg tagtatgctt tgctcttgtc cattttgtat tttctgaatt 240
 tcaaacagtt aaaaaaaaaa aaaaaaaaaa 268

<210> 249
 <211> 2450
 <212> DNA

095082-09201

<213> Homo sapiens

<400> 249

ggcacgagcg	gcacgaggtt	tcttgaggag	taattgtcgg	gaaagtagat	aaagtataag	60
ctttagaatc	atatatttag	attcaaata	ctggtatcga	atcctggctc	tgaatttact	120
ggctgtgtga	ccatgggtaa	attacttaaa	ttccttaact	ctccctgttt	tccattccta	180
aatgtgtatg	atgaattatt	tgcagagcca	tttgaggagc	tagtggtatg	gaatgcaaac	240
tattttatgtc	tattttactaa	aacataaaca	gagtaaatca	ccaagtacag	acaggctcca	300
aggaatgggt	tgcttacttg	ttcactcttt	tttgtctttc	tgattctatc	ctctgtcact	360
ctaggtcttc	agtttcttta	ctctccatgg	tggtgcctgg	ctgctgcgac	tctaggggtc	420
ctttgcctgg	gattagtagt	gaccattatg	gtgctgggca	tgcaattatc	ccaggtgtct	480
gacctcctaa	cacaagagca	agcaaaccta	actcaccaga	aaaagaaact	ggagggacag	540
atctcagccc	ggcaacaagc	agaagaagct	tcacaggagt	cagaaaacga	actcaaggaa	600
atgatagaaa	cccttgctcg	gaagctgaat	gagaaatcca	aagagcaaat	ggaacttcac	660
caccagaatc	tgaatctcca	agaaacactg	aagagagtag	caaattgttc	agatttagag	720
tccgaggcgc	tgtctccag	acataccctt	caggtagctg	tgcatatata	caacgaggag	780
ctgtttatgc	ggaaaactgc	atttttagctg	ccttcagtat	atgtcagaag	aaggcaaacc	840
taagagcaca	gtgaatttga	aggctctgga	agaaaagaaa	aaagtctttg	agttttattc	900
tggaatttaa	gctattcttt	gtcacttggg	tgccaaacat	gagagccag	aaaactgtca	960
tttagctggc	tgcaagaactc	ctttgcagaa	actgggggttc	caggtgcctg	gcacctttat	1020
gtcaacattt	ttgattctag	ctatctgtat	tatttcacct	agcttgtccc	aagcttccct	1080
gccagcctga	agtcactttt	ccccttttta	ttttaaaatt	tgactcctct	tcaagcttga	1140
aaaccctctg	aactcagttc	tctttaccct	attatcacct	tccccctaca	ctcctaaaat	1200
tgcatgaaag	acagaacatg	gagaacttgc	tcaagtgcag	gcagagagca	aaaaggggaa	1260
atatgtctgg	gaaaaagtgc	acgtgaagaa	acaaagaagg	acagaggcca	ttccgaaatc	1320
aagaaactca	tgttcttaac	tttaaaaaag	gtatcaatcc	ttgggtttta	cactgtgggc	1380
catctccaga	ctctaccact	tacagacaga	cagacagaca	cacacacaca	cacacacaca	1440
cacatttttg	gacaagtggg	gagcccaaga	aagtaattag	taagtgaagt	gtcttttctg	1500
taagctaate	cacaacctgt	taccacttcc	tgaatcagtt	attatttctt	catttttttt	1560
tctaccagag	gacagattaa	tagatttaac	ccttcacaac	agttcttggg	agaatcatgg	1620
gatgtgtggc	ccagaggtaa	agaatagaat	ttctttccct	aaagaacata	cctttttag	1680
atgaactctt	ctcaactctg	ttttgctatg	ctataattcc	gaaacataca	agacaaaaaa	1740
aatgaagaca	ctcaatctag	aacaaaactga	gccagggtatg	caaatatcgc	tgaatagaaa	1800
cagatggaat	tagaaatata	tcttctattt	ttaggcttct	atttcctttc	caccactct	1860
tcacaggcta	ttctacttta	aaggaagcct	ttttattttg	ctgcacacaa	tctagcagga	1920
atcttttttt	ttttttttta	gagctgtgtc	atccttatgt	aggcaagaga	tgtttgcttt	1980
tgttaaaagc	tttattgaga	tataattaac	ataaaaataaa	ctgaacatat	ttaaagtgt	2040
ctattttgata	agttttcaca	ccttgtggag	aacatgcata	ctacaattaa	gagagtgaac	2100
atatccatca	tccctcaaag	tgtcacaatg	ctcctcctga	tgactcctcc	ccagaaaacc	2160
accaactcgg	tttcattttg	cattttgtag	ttttatgtga	atggaatcat	atagtatgtc	2220
tttttttttt	gtctggcttc	tttcactttg	cataattatt	ttgagattca	tatgtctcca	2280
tcttgatgct	cgtatgaatt	cattctttta	aatgttgaat	attcccttgt	atggatatac	2340
cacaattcat	ttaccatttt	acttgttgat	gacatttggg	ttgttttagt	tttgggat	2400
tacaaataaa	gctgctgtga	acatttgtgt	acaaaaaaaa	aaaaaaaaaa		2450

<210> 250

<211> 2385

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (14)

<223> n equals a,t,g, or c

<220>

09500560-0920

<221> SITE
 <222> (16)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (35)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2376)
 <223> n equals a,t,g, or c

<400> 250
 ctgntcttct cccngnaacc ccccttggca tttantatga tggactcatg tcctttgctg 60
 gtggaaaact gctgatcgtg ggagaaaatg caacagcaca catttttgca acatacccag 120
 ctccgtatct atctctggcg aacgcatttg cagatcaagt ggtggccacc atgatactcc 180
 tcataatcgt ctttgccatt tttgactcca gaaacttggg agcccccaga ggcctagagc 240
 ccattgccat cggcctcctg attattgtca ttgcttcctc cctgggactg aacagtgggt 300
 gtgccatgaa cccagctcga gacctgagtc ccagactttt cactgccttg gcaggctggg 360
 ggtttgaagt cttcagagct ggaaacaact tctggtggat tcctgtagtg ggccctttgg 420
 ttggtgctgt cattggaggc ctcatctatg ttcttgtcat tgaaatccac catccagagc 480
 ctgactcagt ctttaaggca gaacaatctg aggacaaacc agagaaatat gaactcagtg 540
 tcatcatgta gtggcatgct cagctctgga tttgcagtca gtttgggatt ctcttcagaa 600
 agatggcatc taagtgtctg tgttcttgta agcctgaggt ggaatccacc cagttttgtc 660
 tgctagccat atgggacatc taattggaaa agcatctgca taaaagtttg gaaacaatga 720
 ccacttctct accattgtcc cccacccccca ccccccagaa taacgctgac tgtcccttga 780
 aacagccttc tctcctgccc tgtttatttc atcctcgatg ggaattcttg ctaggtaagc 840
 actaataact cggcatcttg acgatagtc catttgggtg gtttcagctg cactatctgt 900
 atgaaatggt gtcacaaaaa cccctttctt cagtatcgac aaagattaca ttctgagtac 960
 caaccaaac ctaaattgaa agacaaaact atgggtttcag tcaacatatt catgaattag 1020
 ggagctaatt ggttaagctt ccagttcccg ctatgctact ggatttgtat aaatactgat 1080
 attctccaaa cctagtgggt tagggagcaa gagaatgcag ctggaaggca caaggggagg 1140
 acattgtggc attcagaaac tgcaggagac aagatgaatt tgagaagcca aatggaattt 1200
 ttaattggaaa ccatttatca gattaatctc ttgctctcct gcattttaga ggacaccaat 1260
 taatttctct gtcttttagta tataataacc taaaatacca ttgtaacctc agtcatgaaa 1320
 aatacatcac tctgtctttt tagctcaaatt gtattttcct aattgcccac ttgagaacag 1380
 acatttgaca agttatatca acgactgtgc ttgtccatta ttttacacat gccctagaag 1440
 ccaaaactga aagccactgg atcctggctc agctgaatct tcagagtggg aggtctccaa 1500
 aaagatatta ccttattggg cttaacaatt cacaaggcac tttcacacc attatctaatt 1560
 ttaatcctca taatgactat gtgaggcaaa tgccacattg cccatttttc agataaagaa 1620
 acaaaatctt aggggaagata agttgagttg tccaagagca cactgaaagt tgaatgttat 1680
 ctaatgcatt cctctacctc tcagaagatc agtagctggc tgagaatctt tgccaaatct 1740
 tccttgctag ccagaagtgg aattggcagc ttctagaata tgtacacctc tggacaaaat 1800
 gttcctcaat cttaagatac aaagaccctc attgtctggg tctattccca cacttactga 1860
 gtacagatga aggaaagtgg tagcaattta atcataactt tcatttgctg aaaaacatta 1920
 tgagaaggcc tcccttccca agccacctct ggtcttgcta agtcttgatc ttgcttctctg 1980
 ccagcaccaa acattacatt caggggattt cctctggctc agtcttttcc ccttgaagtt 2040
 ctctaataga tgttactttt gacaaaagat cgcctatgag ttacaagcac caggggatgc 2100
 tctacatcaa gggatgcacc ttcagtcaaa ctgtcaaaaa gcccagaatt cccaaaggca 2160
 ttaggtttcc caactgcttt gtgctgatat cagaacagca gaaattaaat gtgaaatggt 2220
 tctgatgact tatgtttctac aatctatgga catacgggat ttttttttct tgctttgaag 2280
 ctacctggat atttcctatt tgaaataaaa ttgttcggtc attgttaaaa aaaaaaaaaa 2340
 aaaactcgag ggggggcccc gaccwttgc cctagnagag gcgaa 2385

<210> 251
 <211> 1243
 <212> DNA
 <213> Homo sapiens

<400> 251

ggcagcagtg	cctgtaagcc	cagctactcg	agaggctgag	cacaaaaatg	gggatgctag	60
tcacacttac	gtcctaggg	tcttggggat	gaaatggggt	cttacttgta	caactcctga	120
agtgggtgtg	ctggcatgtg	acaagcatgc	agcagatgtg	atgctagctt	tcattattat	180
tggtatattg	ccatatccac	ggatgtcatc	ttgtcccttg	tctcctttaa	ttattgacag	240
aagttgacac	aagtgatcat	ctcatccttt	aaaaagtgtc	ttctctcttc	ccttggctac	300
taggacactt	tactgtcgtc	gttcttttcc	agtgtcattg	gccattttca	gtccttcat	360
tagtttctct	cccacttgct	ttttaaatgc	atgtatttct	caaggatctc	ttcatctaaa	420
tgtecttccc	tcaaattgct	gtcttgtgca	ttttcctttt	tagttaatac	tattatatcc	480
tccaagtcac	tcaggattgt	taccgtgaaa	tcatccagaa	ttctgtctcc	tcctttgtct	540
cccttttcag	accactccaa	agctgacctt	ttttcaaatt	ttgttgattg	gacctacccc	600
atcttatgca	tggccttctc	atgttcgatg	ctacgatccc	attttggata	tctggctcatt	660
ctctttttct	gtcttctcat	tactgtcaga	gttctctttc	ttaaagttca	gccctaattg	720
cactccccat	tgcatgaagt	ggtggctctc	aaagaggggc	gctggcataa	taggaggtat	780
gcaaataagt	acatttggat	atgaaaagaa	aatattcaag	ctgtatttat	gccttaagtt	840
aagctttact	aatatttggg	gcatgcattg	gtacctttat	tggctctata	agccatttgc	900
tcatatatct	tgaagtaccc	aagggaagac	tgcaagatga	attaatgggc	ttccactggt	960
tgttgcttct	cagcatattg	cagtctatta	aagcttccat	gtatctgctt	aagtagatct	1020
acagggtaaa	gcatgtagtt	tttaagatgc	atgtgttctc	aaaaagggta	agtgcataaa	1080
aatatttgta	cagaaaaggg	gccgggcgca	gtggctcacg	cctgtaatcc	cagcactatg	1140
ggaagccaag	gcgggtggat	cacgaggtca	ggagattgag	accatcctgg	ctaacatggt	1200
gaaaccccg	ctgtactaaa	attacaaaaa	aaaaaaaaaa	aaa		1243

<210> 252

<211> 2564

<212> DNA

<213> Homo sapiens

<400> 252

ccacgcgtcc	gcaccacact	tgggtccactt	acttataata	aacattgatt	tggctcgttca	60
ggttcccttg	gtcctoctat	tgagaacagt	ttgaagtcca	tgaaaatttt	aacaatattt	120
ttgatcctga	atctaacata	tttgaaaaat	agttgtccca	ctaggcttcc	acagtgcagg	180
cttcaaattg	gatggctaaa	ttcacctcat	ggttcttagt	tttttttgta	cttgtggcac	240
attctcttca	tatattaccc	cacctgtttt	gtttgggcag	ttaagatgct	ggtactgtct	300
ggtggcgata	aggaaagggg	aacagaagtc	agtaattcag	acaagaataa	acaggatgaa	360
atgcatctat	tcctaggtaa	gattagccca	ccacctccac	actgctgctg	tctcttcagc	420
tcaggctggt	tttctctggt	ttgatttgtt	aaagagtaga	gtgctgattt	gtgtgttaca	480
gaggggtggt	tgtacaagtc	ataaagctcg	acatggcctt	gcttctctgt	aggtgttagg	540
acacccatga	tgggtggagtc	tcttggcatt	ctgtgtaatt	agataaggct	gtttatagca	600
ttgggtccatg	agaacttctt	tgtttctatt	taaaatgaaa	atcattgtat	aagtaaaact	660
tcttaaatgt	agatagaaat	agaattttta	ctgaaatttt	atgaagccat	tggccgcagg	720
gatgtgtgtc	atggaggagg	gctccatact	tttttggtat	acttatctca	aacttaattc	780
atttgcatac	tgttttttct	ctaagtcca	actgtcctag	tatattttct	aagtcaactt	840
ttactttcac	tttatcctaa	gcaagaatat	ctttggcatc	acagactcag	taagcccgtt	900
tttttcta	gcacatacaa	ataaataaaa	tgcacaactt	ttaacataaa	tggctgcctc	960
caatttggga	aatactgttc	tggccagagg	ccgttgctct	gataatgtca	tgtgggttagt	1020
gcatttttagg	aagacctcct	ttcccttttg	ttgactcctg	caggacataa	gatatcagtg	1080
acgttatcct	ttgttgagcc	atcctgggtt	gagtcaggat	gagtgttgag	agtttttggg	1140
gagttgcccc	tgtgtcctat	attattttat	cctcttaaat	tctgatgggtc	tttggctcca	1200
ctgactccag	gtaagtggg	gtgacagtgc	agcatatttc	tattttctag	ttgtttctgg	1260
ccagacatgg	ggaaggtcaa	gacatcttgt	tcattgcaaac	ggattgatgg	gcattcctaa	1320
tctgatttta	ttagtgtatt	taggaagtaa	agtaagatct	tgagcccagc	tgaactcccc	1380
tattgaattt	tctaacaaaa	agagagtttg	cgtatgggtt	cataattgag	cctgctcttg	1440
tagaaatgtt	ttatcagaat	tgaaatcctc	tctgatcccc	aaattctaga	gacaaagttg	1500
ttttctgaat	ttgagaaatc	tgttcagttc	acaaggaaaag	gtgacaatgt	gtcatttggga	1560
tgtgtgccca	cacgttaggc	ctcgttgggt	gcttgtgggt	ggagggaccc	tccaggcagg	1620
ctttgtatgg	agggtttcat	gtctggacac	atttctgttc	cgagaagcat	tgtgcgtttt	1680
tgggacgtgg	accctgccag	acctgtgccc	agctctgccc	tcctcccttt	cttgctctgtc	1740
ttttgagtat	gtagtgggct	ttgtgtggca	tcctgccagg	ttaaagctgc	atgggtgctta	1800
ggatagagct	gtgctgtggg	gagctcttga	tgatggggct	gccatctatt	tgcctgttaa	1860
ttttagaaac	caaactcaaa	tgtcagaatt	tcctttctag	aagaggtggt	tgaataggaa	1920

0995008-091201

ccagaaaggc	cttcatacag	gcagggctgt	tcactcctct	gacttgcggtg	tttgtccttc	1980
ctttagtaggaa	ggcttttagg	gaatttatct	gttttagggga	aataagcctg	caggaatgaa	2040
ctttttttta	aaataaaaaac	tcttgatcaa	aatggaaaga	aaaaaaccag	tgaaacaggc	2100
taggtagttt	gtggaattct	cctttgcagg	tgaggggaga	aagcagctat	ctcaagggca	2160
cagctacaga	ttgggagctg	gggcttccat	ccaggtctg	ggacacccaa	accttaggct	2220
tgccccctccc	gggaggcctc	ccccctcagag	ctatgtggga	tgcagttgcc	tttttacctg	2280
tgatgagaaa	ctggtgaatt	gccaggattc	tggctctggc	ttcagttctgc	ccctttccgg	2340
ggattagagg	gcattaaccc	tacttcctac	agccaagcag	ctcttctca	tgactctact	2400
ttctaactcg	gggggttgac	tgattgattt	gaagaccgcc	ttgttgatga	atgtgttgaa	2460
acttgctatc	ataatgtaaa	tgctccttaa	taaaataaca	ggacctgggtg	ggttcagttg	2520
ccttgccccac	gtgtgactta	aaaaaaaaa	aaaaaaaaa	aaaa		2564

<210> 253

<211> 2495

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (913)

<223> n equals a,t,g, or c

<400> 253

tgtaagggtgg	tttgggggtca	tgttttttaac	cacctggcca	atacagtcca	ctttctgggtt	60
tctttttattg	tgggaagtaa	atggtcaagc	tgctcaggca	gtgaaaagat	gtggagaatg	120
tccgtttgtca	ttcttgccac	tgtattccat	ttgctaccga	gatataacat	taagggtggac	180
acatttlycta	actgtattaa	ttaaaagtca	atggatacag	agagtggatt	tyctcccaag	240
tcccatccct	gctgaagacc	gcttggtatga	actccccaac	ccactgtgcc	cctcccgcga	300
cactaccagg	agactttaga	accatagtta	actaagtctt	ttacctctga	gatacttaat	360
tctgggaaaa	ttggtgacaa	ttttcaactt	ctaaaatagg	aactcgactg	caaaaataatc	420
aaaactgata	acaatgaaac	tgcggctctt	aaacaaagcc	atgcatgccg	tgcatttgta	480
ttgaaatgtc	tccatgatat	gaagccaaat	attcaatgta	acatacttaa	tatccaaagg	540
tggaaacaaa	agaatgtaga	gatccagttg	taagagttcc	atlttgcttca	attaattatt	600
taccttctctg	tgggaataata	tatatatata	tatttaatat	aaccatagat	agactagtag	660
aatttagatt	ataaatgtgt	gagtgcagat	tatcctgcta	ttgcacaagc	tagagggggg	720
aaaaatctca	attccagctg	gcaagatgct	agccaggaca	catataagaa	agttgcacta	780
gattgaatgg	tcacagaatc	ggaggacatg	gaagaaaaag	gaaacttccg	tggttctgca	840
gcagacatgg	gctaggctat	atgtggtttc	trtsaagttc	gtgtctcaaa	aaaaaaagga	900
gggggggcat	ctntccccgg	tggagctcac	ctatttggga	atatggggca	tttgtttttt	960
ccactgcaat	gatttcagtc	tggtttctatc	atgttgggaat	tcatcacac	cattttcaaa	1020
caatgttaac	atagtccagc	ttttgttttt	ctcatctctt	ctgagaggag	actcactggt	1080
tctgtctgag	gaagctcata	ccctcgga	aacatcagga	caaataaaga	gaaatggggg	1140
tacgcattcc	caacagaagc	agtgtgttat	ttgttttaaa	actctgaaca	gagatcttgg	1200
gaaatctttc	aaaaagacca	ttgaattctt	cattggctga	gaacgacgtt	ttaaaatgtc	1260
ttaaataagg	ctttgtttgc	attgtttgag	ttcaaggggc	cttattattg	aatggaattg	1320
cacaagcctt	tctttgtgca	atcaaaccat	tgttattgggt	agttctgtaa	aggaaactgt	1380
ggaatcgaat	tggcagtgga	gtcataaatc	tatttactga	gtgtggcttc	caagaaatgt	1440
tgcaattcaa	aatgcactaa	gtctgtgatt	tattggagat	ttggagattc	taaaataat	1500
ttttaaaaaa	cttccatgca	acttctgggt	taatgtttgg	caactccaca	tgataaaaaa	1560
ataaaaaacag	cccaaccgag	tttcggaatt	aagtattctt	ctagtaagtg	attcaaactt	1620
gtaatatattg	ccacaggact	gacttattta	tttactagct	agaagctctt	aagttcactt	1680
gtttatcagg	gcatatacag	aagggtttgt	taaaactcga	tgtaactttt	acaactttct	1740
gacctgggtgc	atgaattctc	aagtactgta	tttcaactgtg	ttggtgtgtc	tgatggaaat	1800
ttcgagggtgg	ttccacaaaa	atatttttatg	tagtgtgcct	tcaaagagaa	ccattttattt	1860
ctcttcactt	atcgctccca	aaagtcacat	ttggtggtgg	tcagccaagt	cgcactctggt	1920
ctagtttttac	tcttgtccca	attttaaaaga	gaaatgggaa	tgagtttgcc	ctggtgagac	1980
ccataccatt	gcaatgatta	tcttgagcac	ttaaagtcca	gtgttggtg	ttagtgtatt	2040
tgatattctg	cctgtctcct	catgggtgaa	atatgtctga	agaatagcag	cataatctct	2100
tggctgttta	tactttttta	aactttctctg	tggtgtgaaat	attgtatact	tttgggtgatt	2160
ccagctatgt	aacctctatg	ctctgtaagg	tgattattttg	tatatagcaa	catggcccag	2220
tgatattata	tagtttccca	atggagaggt	tattgagtaa	cctttgcatt	agtttaaaca	2280

095005660-09160-0020

ctaccagaag	aatgctgagc	caactataaa	cactcaattt	tgtatgtttt	ccaaattgta	2340
cttattactg	cttttgatac	tgtattacgt	gccaatagtt	tcccaatcac	atagcaggca	2400
agagatattt	tgtacttttt	gatccactgt	aatatattaat	aaaaaatggt	actatctggt	2460
aaaaaaaaaa	aaaaaaaaag	gsggccgccc	aaggg			2495

<210> 254
 <211> 947
 <212> DNA
 <213> Homo sapiens

<400> 254						
ccacgcgtcc	gcggacgcgt	gggaaaaaaaa	taaaaacagc	ccaaccgagt	ttcggaatta	60
agtattcttc	tagtaagtga	ttcaaacttg	taatatattgc	cacaggactg	acttattttat	120
ttactagcta	gaagctctta	agttcacttg	tttatcaggg	catatacaga	agggtttggt	180
aaaactcgat	gttaacttta	caacttttctg	acctggtgca	tgaattctca	agtactgtat	240
ttcactgtgt	tgggtgtgtct	gatggaaatt	tcgaggtggt	cccacaaaaa	tattttatgt	300
agtgtgcctt	caaagagaac	catttatttc	tcttcactta	tcgtcccaca	aagtcacatt	360
tgggtggtgg	cagccaagtc	gcatctgggtc	tagttttact	cttgtcccaa	ttttaaaagag	420
aaatgggaat	gagtttgccc	tgggtgagacc	cataccattg	caatgattat	cttgagcact	480
taaagtccag	tgttggtgtg	tagtgtatatt	gatattctgc	ctgtctcctc	atgggtgaaa	540
tatgtctgaa	gaatagcagc	ataatctctt	ggctgtttat	acttttttaa	acttttctgt	600
gttgtaaaata	ttgtataact	ttggtgattc	cagctatgta	acctctatgc	tctgtaaggt	660
gattattttgt	atatagcaac	atggcccagtc	gatattatat	agtttcccaa	tggagaggtt	720
attgagtaac	ctttgcatta	gtttaaacac	taccagaaga	atgctgagcc	aactataaac	780
actcaatttt	gtatgttttc	caaattgtac	ttattactgc	ttttgatact	gtattacgtg	840
ccaatagttt	ccaatcaca	tagcaggcaa	gagatatttt	gtactttttg	atccactgta	900
atatttaata	aaaaatgtta	ctatctgtta	aaaaaaaaaa	aaaaaaa		947

<210> 255
 <211> 2062
 <212> DNA
 <213> Homo sapiens

<400> 255						
ccacgcgtcc	gatcaattag	atgccccgaa	atctacagtc	gctgaataac	caataaacag	60
taacctccat	caaatgctat	accaatggac	cagtgttagt	agctgctccc	tgtattatgt	120
gaacagtctt	attctatgta	cacagatgta	attaaaattg	taatcctaac	aaacaaaaga	180
aatgtagttc	agctttttcaa	tgtttcatgt	ttgctgtgct	tttctgaatt	ttatgttgca	240
ttcaaagact	gttgctctgt	tcttggtggt	tttggattct	tgtggtgtgt	gcttttagac	300
acagggtaga	attagagaca	atattggatg	tacaattcct	caggagacta	cagtagtata	360
ttctattcct	taccagtaat	aagggtcttc	ctaataataa	ttaagagatt	gaaactccaa	420
acaagtattc	attatgaaca	gatacacatc	aaaatcataa	taatatatttc	aaaacaagga	480
ataatttctc	taatggttta	ttatagaata	ccaatgtata	gcttagaaat	aaaactttga	540
atatttcaag	aatatagata	agtctaattt	ttaaatgctg	tatatatggc	tttactcaa	600
tcactctctc	gatgttggtt	ttaactcgct	ctgtgttggt	gcaaaaacttt	ttggtgcaga	660
ttcgtttcca	aaactattgc	tactttgtgt	gctttaaaca	aaataccttg	ggttgatgaa	720
acatcaaccc	agtgctagga	atactgtgta	tctatcatta	gctatatggg	actatattgt	780
agattgtggt	ttctcagtag	agaagtgact	gtagtgtgat	tctagataaa	tcatcattag	840
caattcattc	agatgggtcaa	taacttgaaa	tttatagctg	tgataggagt	tcagaaattg	900
gcacatccct	ttaaaaataa	caacagaaaa	tacaactcct	gggaaaaaag	gtgctgattc	960
tataagatta	tttatatatg	taagtgttta	aaaagattat	tttccagaaa	gtttgtgcag	1020
ggtttaagtt	gctactattc	aactacacta	tatataaata	aaatatatac	aatatataca	1080
ttgstttcac	tgtatcacat	taaagtactt	gggcttcaga	agtaagagcc	aaccaactga	1140
aaacctgaga	tggagatatg	ttcaaagaat	gagatacaat	tttttagttt	tcagtttaag	1200
taactctcag	cattacaaaa	gagtaagtat	ctcacaaaata	ggaaataaaa	ctaaaacgta	1260
gatttaaaaa	gaactgcacg	ggcttttaggg	taaatgctca	tcttaaacct	cactagaggg	1320
aagtctttct	aagtttcaag	caagaccatt	tacttaattg	gaagttttgg	aaagttataa	1380
aggtgtatgt	tttagccata	tgatttttaat	tttaattttg	cttcttttag	gttcgttctt	1440
atttaaagca	atatgattgt	gtgactcctt	gtagttacac	ttgtgtttca	atcagatcag	1500
attgttgat	ttattccact	attttgcatt	taaatgataa	cataaaaagat	ataaaaaatt	1560
taaaactgct	atttttctta	tagaagagaa	aatgggtggt	ggtgattgta	ttttaattat	1620

ttaagcgtct	ctgtttacct	gcctaggaaa	acatttttatg	gcagtcttat	gtgcaaagat	1680
cgtaaaagga	caaaaaat	aaactgctta	taataatcca	ggagttgcat	tatagccagt	1740
agtaaaaata	ataataataa	taataaaacc	atgtctatag	ctgtagatgg	gcttcacatc	1800
tgtaaagcaa	tcaattgtat	atgtttgtga	tgtgtaccat	actgtgtgct	ccagcaaagt	1860
tccattttgtg	taaatgtatt	tatttttatat	tgtatatatt	gttaaattgca	aaaaggagat	1920
atgattctgt	aactccaatc	agttcagatg	tgtaaactcaa	attattatgc	ctttcaggat	1980
gatggtagag	caatattaaa	caagcttcca	ctttaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2040
aaaaaaaaaa	aaaaaaaaaa	aa				2062

<210> 256

<211> 1716

<212> DNA

<213> Homo sapiens

<400> 256

ggcttttgca	aaaagctatt	taggtgacac	tatagaaggt	acgcctgcag	gtaccgggtcc	60
ggaattcccg	ggcgcaccca	cgcgtccgct	aagataaggg	ctttcttaag	ctttcagggtg	120
tatgtatcct	ctagatgtag	acaataatgt	cccatttcta	agtcttttcc	ttttgcttct	180
ccttaaattg	attgtacttc	caaatttgct	gttatgtttt	tttccctaata	ctgtgatcta	240
tctgatctgc	agacaagaac	cttgtctctg	ttgaagagca	tcaaggggag	attatgtaca	300
cattgaaact	gaagtgtggt	gttactgacg	gaatgtgcag	taactcctca	gatatctgtt	360
aaggcatttc	ccagatgtga	tgccagcctt	cttacctgta	ctgaaagatg	cttagcttag	420
aaaaaaaaaa	aacagatgca	aaatcagata	atttttat	gtttcatggg	ttttcttatt	480
tactttttaa	caaggaagga	atattagaaa	atcacacaag	gcctcacata	catgttattt	540
aaagaatgaa	ttgggacgga	tgtcttagac	ttcactttcc	taggcttttt	agcaaaacct	600
aaaggggtgg	atccatattt	tgcgtgaatt	atgggtgtaa	gaccttgccc	acttaggttt	660
tctatctctg	tccttgatct	tctttgccaa	aatgtgagta	tacagaaatt	ttctgtatat	720
ttcaacttaa	gacattttta	gcactctgtat	agtttgtatt	caatttgaga	ccttttctat	780
gggaagctca	gtaattttta	ttaaaagatt	gccattgcta	ttcatgtaaa	acatggaaaa	840
aaattgtgta	gtgaagccaa	cagtggactt	aggatgggat	tgaatgttca	gtatagtgat	900
ctcacttagg	agaatttgca	ggagaaagtg	atagtttatt	gttttttccct	cgcccatatt	960
cagttttgtt	ctacttcctc	cccttccttc	cagatgataa	catcacatct	ctacagtaag	1020
tgcctctgcc	agcccaaccc	aggagcgcaa	gttgtctttg	ccatctgggtc	tatagtacag	1080
tgcgcggcgt	tagggccaaa	ctcaaaagca	ttatcttttt	taggggttagt	agaaattgggt	1140
ttatgtgatg	ggaggttggt	tgattgtcaa	aatgtacagc	acaggctttt	aatttgggaa	1200
gcccctgggtg	gcattttcaa	aggggacctc	ttacagggtg	gtaaaaaggt	attaagattc	1260
ttactaatct	gtgggttggtg	ccttgccaga	caggctcctaa	attgtatat	ttttggaaaa	1320
gtttatatac	tctcttagga	atcattgtga	aaagatcaag	aaatcaggat	ggccatttat	1380
ttaatatcca	tttcatttca	tgttagtggg	actatttaac	ttgtcaccaa	gcaggactct	1440
atttcaaaca	aaatttaaaa	ctgtttgtgtg	cctatatgtg	tttaatcctg	gttaaagata	1500
aagcttcata	atgctgtttt	tattcaacac	attaaccagc	tgtaaaacac	agacctttat	1560
caagagtagg	caaagatttt	caggattcat	atacagatag	actataaagt	catgtaattt	1620
gaaaagcagt	gtttcattat	gaaagagctc	tcaagttgct	tgtaaagcta	atctaattaa	1680
aaagatgtat	aaatgtttgt	gaaaaaaaaa	aaaaaa			1716

<210> 257

<211> 788

<212> DNA

<213> Homo sapiens

<400> 257

ccacgcgttc	ggaaggcctg	ccctcagagt	gcagatccgt	cacagactaa	ggagatggca	60
ggcattgaca	gcttcactcc	atgaaggcca	tctctgtttc	tctcctccgc	ttaaccaagc	120
tgttgtgggt	tttcagcata	gtgttgtatg	ttccattgct	agctgtcctg	ctgtttaaca	180
cagtgttgta	ttttttttct	aaatgtacat	aattagaaaa	gaaaataaca	ataggaagct	240
atgtgtatct	tctgtgtaaa	gcagtggcct	cactggaaaa	atgggtgtggc	tagcatttcc	300
ctttgagtca	tgatgacaga	tgggtgtgaaa	accatcttaag	tttgcttttg	accatcacct	360
cccagtagca	atttgctttc	ataatccatt	tagcaatcca	ggcctctggt	gaaaagataa	420
tatgaggggag	aagggaacac	atttccttct	gaacttactt	ccctaagtca	ctttccttat	480
gtatcatcta	atacaatgat	gggttgagtga	aaatacagaa	gggtgtttga	gtattcagat	540
ttcataaaac	acttccttgg	aatatagctg	cattaacttg	gaaagaagcc	tgttgggcca	600

gaagacagaa	actccaactg	gcaaaaaagc	aagcatctaa	gaaaaaaaac	caccaaagtt	660
cttgaattta	ctatatatta	atgcattggg	taagttttatt	ttgctaata	aagtgaactg	720
ctttttgctc	taaaatgata	ttctaataaa	aaccttaact	ttttgttgaa	aaaaaaaaaa	780
aaaaaaaa						788

<210> 258
 <211> 1611
 <212> DNA
 <213> Homo sapiens

<400> 258						
tcgacccacg	cgctccgatac	aacagttatc	atatggcaag	ttgatccgga	tacacacctg	60
ctaaaactgc	ttaaaacatt	agaaggacat	gcttatggcg	tttcttatat	tgcatggagt	120
ccagatgaca	actatcttgt	tgcttggtgg	ccagatgact	gctctgagct	ttggcttttg	180
aatgtacaaa	caggagaact	aaggacaaaa	atgagccagt	ctcatgaaga	cagtttgaca	240
agtgtggctt	ggaatccaga	tgggaagcgc	tttgtgactg	gaggtcagcg	tgggcagttc	300
tatcagtgtg	acttagatgg	taatctcctt	gactcctggg	aaggggtaag	agtgcaatgc	360
cttttggtgct	tgagtgatgg	aaagactggt	ctggcatcag	atacacacca	gcgaattcgg	420
ggctataact	tcgaggacct	tacagatagg	aacatagtag	aagaagatca	tcctattatg	480
tcttttacta	tttcaaaaaa	tggccgatta	gctttgttaa	atgtagcaac	tcagggagtt	540
catttatggg	acttgcaaga	cagagtttta	gtaagaaagt	atcaaggtgt	tacacaaggg	600
ttttatacaa	ttcattcatg	ttttggaggc	cataatgaag	acttcacgc	tagtggcagg	660
aagatcacaa	ggtttacatc	tggcacaaac	gtagtgaact	gccaattgcg	gagctgacag	720
ggcacacacg	tacagtaaac	tgtgtgagct	ggaaccacac	gattccatcc	atgatggcca	780
gcgcctcaga	tgatggcact	gttagaatat	ggggaccagc	accttttata	gaccaccaga	840
atattgaaga	ggaatgcagt	agcatggata	gttgatgggtg	aatttggagc	agacgacttc	900
tgtttaactt	aaaatttagtc	gtattttaat	ggcttgggat	ttggtgcaaa	caaacatgat	960
tgatagctgg	acagacatgc	tcgtcatgaa	aaaaaaacca	tttctgaagc	ccgattgggg	1020
cccaaacatt	tacaccttgc	ttcatagtaa	ccagttgaga	tgaagcacgt	cgttagaacg	1080
ttgttgga	ccatgttgaa	ttattcccc	atcggttgtg	aagaactgtg	ctacattcag	1140
gcttaccat	tgaactcagt	atatataatt	ttttccttcc	tgtcttttgt	ctggcaggat	1200
accattcttg	ttgctcttct	gtgtaatgaa	gtttaaatgc	ttgtttggaa	aactttattt	1260
aacagtttag	aaggcttgat	agaaagagtg	cattagtctg	aagagtatac	attggatagg	1320
aaagaatttc	cttcttttgt	ttctccaaat	ctttccgcct	tatttagctt	gagatctttg	1380
cagcttggtt	catggattct	agccttgccc	gttgccgagt	atatactgat	ccagatgata	1440
aaccagtga	ctatgtcaaa	agcactctca	atattacatt	tgacaaaaag	ttttgtactt	1500
ttcacatagc	ttgttgcccc	gtaaaagggt	taacagcaca	attttttaaa	aataaattaa	1560
gaagtattta	taggaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaggg	c	1611

<210> 259
 <211> 626
 <212> DNA
 <213> Homo sapiens

<400> 259						
ccacgcgtcc	gatagacgag	ttgaagattt	tgtttttcat	atacaattca	gccagtccta	60
gctaaaacgc	aatcactgga	aatttaacct	taaattcatt	taaaactgaa	aaaggtcttt	120
tgaaatcaaa	ctaattgcaga	aactgcttta	cccaaaattc	tgatccatgg	ccctcattag	180
acgaccatc	aggacaaata	aagtttagct	tgtgaacaag	tcccagtttt	gtcaaaaaata	240
taatttggat	tgaagtgtct	tttagaaact	gacacatttg	tgttattatc	tcatgaccaa	300
aattctaaaa	tgaagctac	agtgtcttat	ttgtgtgcgt	atgtggttaa	tgtgtttatg	360
catatgtatg	tgtatatgtt	gtatgttgtt	atctacatgg	taaaatctgg	catcatcaac	420
aaaaaatcta	ttaagggatt	ctatctagat	tggcttagat	aaataagcat	tcataaaaaa	480
tatgtactaa	ttaacccaaa	tgccttttag	ttcatgtgac	ttaagtatat	ctttaataaa	540
caaatcagtt	ttaaaattgt	tggtaaaata	aaaatacaaa	tgttctcaga	aaaaaaaaaa	600
aaaaaaaaaa	aaaaaaaaaa	aaaaaa				626

<210> 260
 <211> 1146
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (297)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (489)
 <223> n equals a,t,g, or c

<400> 260

ggtcttgatc	ttgttaccga	aatgcattct	gtgtaatttc	aacgtagact	acgttcctga	60
gtctgatgat	gtcattgtaa	ataatcattc	ctcatgttgc	tctcacgggt	ttgacattgg	120
aggatagatg	tgccatcaac	tttaaataga	gtttccatct	tttgtcagct	ctgcatgtca	180
tacagcaaga	tggaacacag	ggttgcaagaa	agaaccaacg	ttattcctga	cattctattg	240
atgtgttttg	agcagcaatg	tgtaaccagg	tgttttctgct	tctaactctg	attctgnctg	300
atgaccattt	ttatacttta	tggaagcc	tcattgcctc	agtttcctgt	ctggaaaatg	360
agttcatcat	ctacctcttg	ggcaattgag	agttttcatt	ttgtgtcttt	taaacatctg	420
gaaaatggaa	aacactgagg	gctaaggata	atgatattgt	taatgtaatt	tgatcatcaga	480
cgggcctc	gtcactatt	tctttttttt	tagatgctgt	tttttttagaa	tattaaatta	540
aaggagtgtc	gttaatatgt	aatcttcaac	tagttccatg	gaggaaagtg	atgttttatg	600
aattagagct	taaattccta	tctaatttct	gaagactgca	ttcttttcaa	agacttgaaa	660
ttaaactcag	gaggatacat	tttgtttggt	ctagggggaa	acgtaataga	atggatatgag	720
atgaattcta	tcctttttaca	ataattatta	ctataatatt	gaagtmittt	atgcctttct	780
gaaacacttt	attcagaaaa	gatcattttt	tggtctcctt	ttaaaaataa	gcttgaagta	840
gggaagcatt	tgcttcttag	attttaaatg	tagtcttatt	atgctgagga	aaatcttttag	900
ttgaaaggat	aattcattac	agatttttga	tgaaggggaag	aaattaatta	tggttgctgga	960
agactgtcta	caaataatca	aaatatttta	atgtaatgta	ttcaagttgt	tattaaaaag	1020
ttactgaatg	ttatctgaag	atgtgaaaatg	tgtagtcaag	taaaaagtgt	gcgtatactt	1080
tcttgggctg	catatccaat	ttaattaaaa	aattaaaatc	caaaaaaaaa	aaaaaagggc	1140
ggcgcg						1146

<210> 261
 <211> 2967
 <212> DNA
 <213> Homo sapiens

<400> 261

ggggactcag	tggagcagcg	gggagttgtg	tccaccttgc	cgacgtcgct	agccgtgggg	60
ctgtcctggg	aaggcggacg	gcgagcgccc	ggtgtccgca	ctcgcccgcc	tgccgtgccc	120
gtctgcgccc	gtgtcatcct	cactcgggac	gcagggaccg	tttttaaata	acaggggcgt	180
gtgtcagcct	gccctaggac	ttcatgtcta	tatatctccc	cattcactgc	cccactatc	240
tgagatcggc	caagatgact	gaggtgatga	tgaacacca	gcccattggag	gagatcggcc	300
tcagcccccg	caaggatggc	ctttcctacc	agatcttccc	agaccctgca	rattttracc	360
gctgctgcaa	actgaaggac	cgtctgcctt	ccatagtggg	ggaaccacaca	gaaggggagg	420
tggagagcgg	ggagctccgg	tggccccctg	aggagttcct	ggtccaggag	gatgagcarg	480
ataactgcga	agagacagcg	aaagaaaata	aagagcagta	gagtccctgt	ggactcccat	540
gggtcatacc	agccagcatc	tgttcctgaa	ctgtgttttt	cccatcatga	cggagaaga	600
gagtgcgccc	caattgttct	gaaaatgtca	aacgaggctt	ctgttttgca	cctgcagatc	660
accgagttgg	ttttcttttc	ttttcttgcc	tttttttttt	tttgaaattt	gccgagcagt	720
ggagccctct	gacaatttgc	aaggccctct	gagaaaggaa	gctgcttaga	gccagggggg	780
tagtgggtga	ggggagcag	tgctgttttt	gagatcatta	tctgaactca	ggcagcctag	840
tagagggcag	ggtgggattc	caatgggtct	tggtgggtgg	gaggtggggc	atgtgcaaag	900
caagcaagga	acatttgggg	taagaaaaca	aacatgaggc	aaaagaaaaa	atacatgttt	960
ttaagaaaaac	attgagcaga	gaactgcagc	caggatgcgc	tcagcagaca	ttcactctgg	1020
ctgctgggac	atcagaaaaac	aaagtcttca	tctctctctc	cagtttccac	caccccaccc	1080
tttgctttca	tttcaggtgt	gttggtctat	atgacagggg	ggagagttaa	ggagagcagg	1140
agcaattggc	tgccctgcaaa	gccagctgga	ggtgaagtgc	aggaaaggaa	aggtcacccc	1200
attctactcc	atggcctctc	tgctcccagc	tgtggtaggc	tcacatagcc	agtgtgatcg	1260
gtttttaaga	ggcagtgctt	ttcagctttt	ctccctgata	tatccatttt	gcttcccagc	1320

acttttttagg agtagtgaga gcacttctctg cccttggttgg aagccccagg gtggacactc 1380
 agcacgaagg tctctccctt aactgctgcc cttccaagac ttgctcccga gatggagtgg 1440
 gcgtgggtctt ccaggctggc ccttccctct cctcaccgcc accttccctg cccagagccc 1500
 agcagccatg ggtacatggg tccccagctc acctatggat tcccgccagt ctgcccagct 1560
 gcagtactca cgccccatgg gggatcttgg tctgtttttc ttgtgggagc ctagtggaga 1620
 gcagacgtgg ctttttatgt gtcttggttgg ggaggtgact tgcattggtg ggacaaggct 1680
 gtcgtggcaa ccttgggacg gagtttgaga ctaaaggatg tcatgagatc cctggcttct 1740
 ccccatgttg ttcccgagca agggcagaag ggaggcatgg caagggacct ctgctgtcct 1800
 tactcaacag tggtcctcat cctccccac cctccactgc ttcttgcaag ggcaccagtt 1860
 gtatgagaaa gttggccttt ggacttagga tttcttattg tagctaagag ccattctgaag 1920
 cagcaggttg caggacaaat gcttcagtcg gccgagagca gtaccgtgtg gccaaagggt 1980
 ggactcagag ccttccctga gctaaactcg gccaaccaag gcacgcagca tgtccctca 2040
 ggtctccagt cagtcaggt tgacctcag ttctggacgt gtgtatatag ctgtatttaa 2100
 tacctcaagg tcattgtggc tctggggatg ccggggcagg aggacgaggg tgcgctgtgg 2160
 acacagcagt ccgcggaatt ccgttctggg aagccaatgg tcgccggcac cccttgcttc 2220
 ctccctctgt tgtctgctg tgtgacacac atcaatggca ataacttctt ccaactcctc 2280
 gcagaagtgg gagaggccgg cagcctgcac cgagaggggc tttcctctct cttgctcccc 2340
 gcttcgttct gttttggctg cagagagtgg ttcattccata ctctcattcc ctgcctccc 2400
 cttgtggacg ggggtcttgc cttttcaatt cctgtgtttt ggtgtcttcc cttatctgct 2460
 accctgaatc acctgtcctg gtcttgctgt gtgatgggaa catgcttgta aactgcgtaa 2520
 caaatctact ttgtgtatgt gtctgtttat ggggtgtggt tattattttt gctggctcct 2580
 agaccacttt gtatgacctg ttgcagctcg agcaggccag gggctgacag ctaatgtcag 2640
 gacctcagc ggtggagcct gctgggggga ccagctgct cttggacaag tggctgagct 2700
 cctatctggc ctccctcttt ttttttttcc aagtaatttg tgtgtatttc taactgattg 2760
 tattgaaaaa attcctagta tttcagtaaa aatgcctgt gtgagatgaa cctcctgtaa 2820
 cttctatctg ttcttttttg aggtcaggg agaaactagc attttttttt ttccaaacta 2880
 ctttttgtca ctgtgacagt tgtaaataaa gtttgaaaat gctttccaaa aaaaaaaaaa 2940
 aaaaaaaaaa aaaaaaaaaa aaaaaaa 2967

<210> 262

<211> 752

<212> DNA

<213> Homo sapiens

<400> 262

ccgcttaata cagtatcctt tcgatagcat ctaaattggt gttttgtttt gttttgtttt 60
 caactgttat tagtaggcaa agccttcttt caaaaataaaa tcgacatgaa gcctgtggga 120
 ttttagcagac tgaggcaaag cttccctggg tgctttggaa tgggaggcct ggacctgctg 180
 gctctttgcc ctccctgacac atcatccctt gtttccacag cacactcagc attggaagca 240
 cactgcagac ggtgtctcat taaagcagta gctcccttga acccacaagt taaaacgcca 300
 gactttttat tatttgttta ttttttctga gttcttattg gcagacttca gaatgaggta 360
 cctgaggaaa tatagaaacc tctgccttaa ggttgatttt actaaatgct ctattttctg 420
 gtgcagttat tgactgtctt atctcttttg tcaggaatgt cttttttaat tagaagacag 480
 gaagaaaaca aaaaccagac tgtgtcccac aatcagaaac ctccgttggt gcagaggggc 540
 cttcaccgcc accagggtgt cccgccagac agggagagac tccagccttc tgaggccatc 600
 ctgaggagtt cctgttttggg ggtgtgaggg aaaatcagcg cggattttta aaagatggct 660
 gtggcctgcc cggcgtggtg ggaggggagc tggtttctct gtgaactttc taaaaggaaa 720
 aataatttta agtaaagaaa aaaaaaaaaa aa 752

<210> 263

<211> 640

<212> DNA

<213> Homo sapiens

<400> 263

ccacgcgtcc ggttacaatt tgggtcagaa acggagagat ctgtgttaat ttttgcagaa 60
 cttactgatt tttgttcttt tattgtctct gtcattagga tgaaaaccaa aaaagtatct 120
 tcagaggaaa aaaatcacct tttaattattg ctagttagaa aatgtcatga acagtgtatc 180
 ttagaaatat aatattctac ttattttacac atgtcaaaat ttgtgtctct tccagtgttc 240
 cttgcctgta tctcccttg gttcaatagc taccagattt ttggaagagg aggaactgag 300
 gtctcatcac attctagagc gcttgatgac ccatattgaa gaactaaaaa gagagagtga 360

aaagacagtg	agacaattca	cagccttaaa	gtagcctctt	aaaaaaatca	caatcttggg	420
aataaaaaata	aacaccaaag	agttactgtc	atctgaagta	gcagctcttt	aaaaacatga	480
agagataaaa	ttataaaaat	gatacatcta	aagcagtggg	gaagaaagct	gaaaaactga	540
tacttttgat	aggcattttc	tctgcactgg	tttgtttaaa	ggacttcttc	cagcaataag	600
ttgaaagaat	aaaccacttt	gctagaaaaa	aaaaaaaaaa			640

<210> 264
 <211> 1733
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1730)
 <223> n equals a,t,g, or c

<400> 264						
cccacgcgtc	cgccaggcct	tgagacccag	aagggagcga	agggtttttgc	tgcgccaacg	60
cagtgaccga	agctccgctc	acgcccggcc	tgatcctgcc	tgaagatggg	gccactggtg	120
gctgtggtat	cagggccccc	tgcccagctc	tttgccctgcc	tgctcaggct	gggcactcag	180
caggtcggcc	cccttcagct	gcacaccggg	gccagccatg	cggccaggaa	ccattatgag	240
gtgctggtgc	tgggtggggg	cagtggcgga	atcaccatgg	ctgcccgcac	gaagaggaaa	300
gtgggtgtag	agaatgtggc	cattgttgag	cccagtgaga	gacatttcta	ccagccaatc	360
tggaactggt	tgggtgctgg	tgccaaacaa	ttgtcctcat	ctggctcgcc	cacggcaagt	420
gtgattccat	ctgggtgtag	atggatcaaa	gctagagtga	ctgagttgaa	cccagacaag	480
aactgcattc	acacagatga	cgacgagaag	atctcctacc	gatatcttat	tattgctctc	540
ggaatccagc	tggactatga	gaagattaaa	ggcctacctg	aaggtttcgc	tcatcccaaa	600
ataggggtcg	attattcagt	taagactgta	gagaagacat	ggaaagctct	gcaggacttc	660
aaagagggca	atgccatctt	caccttccca	aatactccag	tgaagtgtgc	tggagcccct	720
cagaagatca	tgtacttata	agaagcctac	ttcaggaaga	caggggaagcg	atccaaggcc	780
aatatcattt	tcaacacttc	tcttgagacc	attttcgagg	ttaagaagta	tgcatatgcc	840
ctgcaggaga	tcattccagg	gcggaacctc	actgttaact	acaagaaaaa	cctcattgaa	900
gtccgagccg	ataaacaaga	ggctgtatct	gagaacctgg	acaaaccagg	agagacccaa	960
gtgatttcat	atgaaatgct	tcattgtcac	cctccaatga	gcccaccaga	tgctctcaag	1020
accagtcctg	tggctgatgc	tgctgggttg	gtggatgtgg	ataaagaaac	tctgcaacac	1080
aggaggtacc	caaatgtggt	tgggattggg	gactgcacca	accttcctac	gtcaaagacc	1140
gctgctgcag	tagctgcccc	gtcaggaata	cttgatagga	caatttctgt	aattatgaag	1200
aatcaaacac	caacaaagaa	gtatgatggc	tacacatcat	gtccactggg	gaccggctac	1260
aaccgtgtga	ttcttgctga	gtttgactac	aaagcagagc	cgctagaaac	cttccccctt	1320
gatcaaagca	aagagcgcc	ttccatgtat	ctcatgaaag	ctgacctgat	gcctttcctg	1380
tatttgaata	tgatgctaag	gggttactgg	ggaggaccag	cgtttctgcg	caagttgttt	1440
catctaggta	tgagttaagg	atggctcagc	acttgctcat	cttggtatgg	ttctgggcca	1500
aaactgcagt	caactgaatga	ccaagagcag	cacgaaggac	ttggaacctc	tccttgtaaa	1560
gagttccttg	atgggtaatg	gtgaccaa	gcctcccttt	tcagtacctt	tgaacagcaa	1620
ccatgtgggc	tactcatgat	gggcttgatt	ctttgggaat	aataaaatga	aataataact	1680
ttattttctg	aataaaagtt	tgtcactgaa	aaaaaaacct	ccgggggggn	ccg	1733

<210> 265
 <211> 1733
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1730)
 <223> n equals a,t,g, or c

<400> 265						
cccacgcgtc	cgccaggcct	tgagacccag	aagggagcga	agggtttttgc	tgcgccaacg	60
cagtgaccga	agctccgctc	acgcccggcc	tgatcctgcc	tgaagatggg	gccactggtg	120
gctgtggtat	cagggccccc	tgcccagctc	tttgccctgcc	tgctcaggct	gggcactcag	180

```

caggctcggcc cccttcagct gcacaccggg gccagccatg cggccaggaa ccattatgag 240
gtgctgggtgc tgggtggggg cagtggcgga atcaccatgg ctgcccgcac gaagaggaaa 300
gtgggtgcag agaattgtggc cattgttgag ccagtgaga gacatttcta ccagccaatc 360
tggacactgg tgggtgctgg tgccaaacaa ttgtcctcat ctggctcgcc cacggcaagt 420
gtgattccat ctggtgtaga atggatcaaa gctagagtga ctgagttgaa cccagacaag 480
aactgcattc acacagatga cgacgagaag atctcctacc gatattctat tattgctctc 540
ggaatccagc tggactatga gaagattaaa ggcctacctg aaggtttcgc tcatcccaaa 600
atagggctga attattcagt taagactgta gagaagacat ggaaagctct gcaggacttc 660
aaagagggca atgccatctt caccttccca aatactccag tgaagtgtgc tggagcccct 720
cagaagatca tgtacttatc agaagcctac ttcaggaaga cagggaagcg atccaaggcc 780
aatatcattt tcaacacttc tcttgagacc attttcgggg ttaagaagta tgcagatgcc 840
ctgcaggaga tcatccagga gcggaacctc actgttaact acaagaaaaa cctcattgaa 900
gtccgagccg ataaacaaga ggctgtattt gagaacctgg acaaaccagg agagacccaa 960
gtgatttcat atgaaatgct tcatgtcaca cctccaatga gccaccaga tgtcctcaag 1020
accagtcctg tggctgatgc tgctggttgg gtggatgtgg ataaagaaac tctgcaacac 1080
aggaggtacc caaatgtgtt tgggattggg gactgcacca accttcctac gtcaaagacc 1140
gctgctgcag tagctgcca gtcaggaata cttgatagga caatttctgt aattatgaag 1200
aatcaaacac caacaaagaa gtatgatggc tacacatcat gtccactggg gaccggctac 1260
aaccgtgtga ttcttgctga gtttgactac aaagcagagc cgctagaaac cttccccttt 1320
gatcaaagca aagagcgcct ttccatgtat ctcatgaaag ctgacctgat gcctttcctg 1380
tattggaata tgatgctaag gggttactgg ggaggaccag cgtttctgcg caagttgttt 1440
catctaggta tgagttaagg atggctcagc acttgctcat cttggatggc ttctgggcca 1500
aaactgcagt cactgaatga ccaagagcag ccaagagacc ttggaacctc tccttgtaaa 1560
gagttccttg atgggtaatg gtgaccaaat gcctcccctt tcagtacctt tgaacagcaa 1620
ccatgtgggc tactcatgat gggcttgatt ctttgggaat aataaaatga aataatactt 1680
ttattttctg aataaaagtt tgtcactgaa aaaaaaacct ccgggggggn ccg 1732

```

```

<210> 266
<211> 1733
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (1730)
<223> n equals a,t,g, or c

```

```

<400> 266
cccacgcgtc cgccaggcct tgagaccagc aaggagcgca aggttttttgc tgcgccaacg 60
cagtgaccga agctccgctc acgcccggcc tgatcctgcc tgaagatggg gccactgggtg 120
gctgtgggtat caggggccccg tgcccagctc ttgtcctgcc tgctcaggct gggcactcag 180
caggctcggcc cccttcagct gcacaccggg gccagccatg cggccaggaa ccattatgag 240
gtgctgggtgc tgggtggggg cagtggcgga atcaccatgg ctgcccgcac gaagaggaaa 300
gtgggtgcag agaattgtggc cattgttgag ccagtgaga gacatttcta ccagccaatc 360
tggacactgg tgggtgctgg tgccaaacaa ttgtcctcat ctggctcgcc cacggcaagt 420
gtgattccat ctggtgtaga atggatcaaa gctagagtga ctgagttgaa cccagacaag 480
aactgcattc acacagatga cgacgagaag atctcctacc gatattctat tattgctctc 540
ggaatccagc tggactatga gaagattaaa ggcctacctg aaggtttcgc tcatcccaaa 600
atagggctga attattcagt taagactgta gagaagacat ggaaagctct gcaggacttc 660
aaagagggca atgccatctt caccttccca aatactccag tgaagtgtgc tggagcccct 720
cagaagatca tgtacttatc agaagcctac ttcaggaaga cagggaagcg atccaaggcc 780
aatatcattt tcaacacttc tcttgagacc attttcgggg ttaagaagta tgcagatgcc 840
ctgcaggaga tcatccagga gcggaacctc actgttaact acaagaaaaa cctcattgaa 900
gtccgagccg ataaacaaga ggctgtattt gagaacctgg acaaaccagg agagacccaa 960
gtgatttcat atgaaatgct tcatgtcaca cctccaatga gccaccaga tgtcctcaag 1020
accagtcctg tggctgatgc tgctggttgg gtggatgtgg ataaagaaac tctgcaacac 1080
aggaggtacc caaatgtgtt tgggattggg gactgcacca accttcctac gtcaaagacc 1140
gctgctgcag tagctgcca gtcaggaata cttgatagga caatttctgt aattatgaag 1200
aatcaaacac caacaaagaa gtatgatggc tacacatcat gtccactggg gaccggctac 1260
aaccgtgtga ttcttgctga gtttgactac aaagcagagc cgctagaaac cttccccttt 1320
gatcaaagca aagagcgcct ttccatgtat ctcatgaaag ctgacctgat gcctttcctg 1380

```

tattggaata	tgatgctaag	gggttactgg	ggaggaccag	cgtttctgcg	caagttgttt	1440
catctaggta	tgagttaagg	atggctcagc	acttgctcat	cttggatggc	ttctgggcca	1500
aaactgcagt	cactgaatga	ccaagagcag	cacgaaggac	ttggaaccta	tccttgtaaa	1560
gagttccttg	atgggtaatg	gtgaccaa	gcctcccttt	tcagtacctt	tgaacagcaa	1620
ccatgtgggc	tactcatgat	gggcttgatt	ctttgggaat	aataaaatga	aataatactt	1680
ttatcttctg	aataaaagtt	tgctactgaa	aaaaaaacct	ccgggggggn	ccg	1733

<210> 267

<211> 1735

<212> DNA

<213> Homo sapiens

<400> 267

cccacgcgtc	cgccaggcct	tgagaccag	aagggagcga	agggttttgc	tgcgccaacg	60
cagtgaaccga	aggctccgct	cacgcccggc	ctgatcctgc	ctgaagatgg	tgccactgg	120
ggctgtggta	tcaggcccc	gtgcccagct	ctttgcctgc	ctgctcaggc	tgggcactca	180
gcaggtcggc	ccccctcagc	tgacacccgg	ggccagccat	gcggccagga	accattatga	240
ggtgctgggtg	ctgggtgggg	gcagtggcgg	aatcaccatg	gctgcccgc	tgaagaggaa	300
agtgggtgca	gagaatgtgg	ccattgttga	gccagtgag	agacatttct	accagccaat	360
ctggacactg	gtgggtgctg	gtgccaacaa	attgtcctca	tctggtcgtc	ccacggcaag	420
tgtgattcca	tctggtgtag	aatggatcaa	agctagagt	actgagttga	acccagacaa	480
gaactgcatt	cacacagatg	acgacgagaa	gatctcctac	cgatatctta	ttattgctct	540
cggaatccag	ctggactatg	agaagattaa	aggcctacct	gaaggtttcg	ctcatcccaa	600
aatagggtcg	aattattcag	ttaagactgt	agagaagaca	tggaaagctc	tgaggagactt	660
caaagagggc	aatgccatct	tcaccttccc	aaatactcca	gtgaagtgtg	ctggagcccc	720
tcagaagatc	atgtacttat	cagaagccta	cttcagggaag	acagggaagc	gatccaaggc	780
caatatcatt	ttcaacactt	ctcttgagc	cattttcggg	gttaagaagt	atgcagatgc	840
cctgcaggag	atcatccagg	agcggaaacct	cactgttaac	tacaagaaaa	acctcattga	900
agtccgagcc	gataaacaag	aggctgtatt	tgagaacctg	gacaaaccag	gagagaccca	960
agtgattcca	tatgaaatgc	ttcatgtcac	acctccaatg	agcccaccag	atgtcctcaa	1020
gaccagtcct	gtggctgatg	ctgctggttg	ggtagatgtg	gataaagaaa	ctctgcaaca	1080
caggaggtac	ccaaatgtgt	ttgggattgg	ggactgcacc	aaccttccta	cgtaaaagac	1140
cgctgctgca	gtagctgccc	agtcagggaat	acttgatagg	acaatttctg	taattatgaa	1200
gaatcaaaaa	ccaacaaaga	agtatgatgg	ctacacatca	tgtccactgg	tgaccggcta	1260
caaccgtgtg	attcttctg	agtttgacta	caaagcagag	ccgctagaaa	ccttccccctt	1320
tgatcaaaagc	aaagagcgcc	tttccatgta	tctcatgaaa	gctgacctga	tgcccttccct	1380
gtatttgaat	atgatgctaa	gggttactg	gggaggacca	gcgtttctgc	gcaagttgtt	1440
tcacttaggt	atgagttaag	gatggctcag	cacttgctca	tcttggatgg	cttctggggcc	1500
aaaactgcag	tcactgaatg	accaagagca	gcacgaagga	cttggaaacct	atccttgtaa	1560
agagttcctt	gatgggtaat	ggtagccaaa	tgctccctct	ttcagtaacct	ttgaacagca	1620
accatgtggg	ctactcatga	tgggcttgat	tctttgggaa	taataaaatg	aaataatact	1680
tttattttct	gaataaaagt	ttgtcactga	aaaaaaaaaa	aaaaaaaaac	tcgag	1735

<210> 268

<211> 1301

<212> DNA

<213> Homo sapiens

<400> 268

ggcacgagcc	cacggcaagt	gtgattccat	ctggtgtaga	atggatcaaa	gctagagtga	60
ctgagttgaa	cccagacaag	aactgcattc	acacagatga	cgacgagaag	atctcctacc	120
gatatcttat	tattgtctct	ggaatccagc	tggactatga	gaagattaaa	ggcctacctg	180
aagggtttcgc	tcatcccaaa	ataggggtcg	attattcagt	taagactgta	gagaagacat	240
ggaaagctct	gcaggacttc	aaagaggggca	atgccatctt	caccttccca	aatactccag	300
tgaagtgtgc	tggagcccc	cagaagatca	tgtacttatc	agaagcctac	ttcaggaaga	360
cagggaagcg	atccaaggcc	aatatcattt	tcaacacttc	tcttggagcc	atcttcgggg	420
ttaagaagta	tgcagatgcc	ctgcaggaga	tcatccagga	gcggaacctc	actgttaact	480
acaagaaaaa	cctcactgaa	gtccgagccg	ataaacaaga	ggctgtatct	gagaacctgg	540
acaaaccagg	agagacccaa	gtgatttcat	atgaaatgct	tcatgtcaca	cctccaatga	600
gccaccaga	tgtcctcaag	accagtctct	tggctgatgc	tgctgggttg	gtggatgtgg	660
ataaagaaac	tctgcaacac	aggaggtacc	caaatgtgtt	tgggattggg	gactgcacca	720

accttcctac	gtcaaagacc	gctgctgcag	tagctgccca	gtcaggaata	cttgatagga	780
caatttctgt	aattatgaag	aatcaaacac	caacaaagaa	gtatgatggc	tacacatcat	840
gtccactggg	gaccggctac	aaccgtgtga	ttcttgctga	gtttgactac	aaagcagagc	900
cgctagaaac	cttccccctt	gatcaaagca	aagagcgcct	ttccatgtat	ctcatgaaag	960
ctgacctgat	gcctttcctg	tattggaata	tgatgctaag	gggttactgg	ggaggaccag	1020
cgtttctgcg	caagttgttt	catctaggta	tgagttaagg	atggctcagc	acttgctcat	1080
cttggaatggc	ttctggggcca	aaactgcagt	cactgaatga	ccaagagcag	cacgaaggac	1140
ttggaaccta	tccttgtaaa	gagttccttg	atgggtaatg	gtgaccaa	gcctccccctt	1200
tcagtacctt	tgaacagcaa	ccatgtgggc	tactcatgat	gggcttgatt	ctttgggaat	1260
aataaaatga	aataatactt	ttattttctg	aaaaaaaaa	a		1301

<210> 269

<211> 443

<212> DNA

<213> Homo sapiens

<400> 269

ggcacgagag	cgcccatcct	gcagctcaac	tgggagcatc	attctcctgc	tttgtacata	60
gggtgtgggc	ccctggcacg	tggccaccat	catgtctagg	cctatgctag	gaggcaa	120
gccaggctct	gcctgtgttt	ttctcaacac	tacttttctg	atatgagggc	agcacctgcc	180
tctgaatggg	aaatcatgca	actactcaga	atgtgtcctc	ctcatcta	gctcatctgt	240
ttaatgggtga	tgccctcggt	acaggatctg	gttacctgtg	cagttgtgaa	taccagagg	300
ttgggcagat	cagtgctctt	agtcctaccc	agtttttaaag	ttcatggtaa	gatttgacct	360
catctccgcg	aaataaatgt	attggtgatt	tgaaaaaaaa	aaaaaaaaa	aaaaaaaaa	420
aaaaaaaaa	aaaaaaaaa	aaa				443

<210> 270

<211> 1190

<212> DNA

<213> Homo sapiens

<400> 270

ggcacgagaa	cagatggacc	attgacaatc	catatatatta	gaaatgatca	aacctaatgt	60
tttctttttt	taagatgaaa	gtaaacataa	atagagatgg	tatttttttc	tgcaattctc	120
tttttataca	tcttatatct	ctttgcagat	tacagttcta	tatttgactt	cccataacat	180
gtcacaggac	atgtgcttta	aatcccccac	aagttgttct	cttgtggata	tagtctaggt	240
cttctgggtt	gtcccaaaat	atgatgtgca	cagacacaaa	catattctgt	atattggttt	300
tggattaaca	cagaatgcag	tgggatttcc	ttcctattat	cattatattt	cccttaatgc	360
agtccaagat	atgtattagt	gtctaaagaa	gtataccaca	tccttaggtc	ttttaaaaag	420
tatcatctgc	ctcttgggac	tctgggctat	ctttactaat	ccatctcaag	tattattttg	480
gtctctcctt	tccactaaaa	ctaaatatcc	tccactctgc	tgctctacca	aattaatgta	540
tggccattgg	cagtaaaactc	ctttatactt	agtgttttct	caatttttaa	atgtttgaat	600
attacactga	tgcagaagtt	atttcataag	catagctttt	tcttgtgtgg	ggtggaaagg	660
gaagaggatt	aaatcactgc	ctcacttgag	cacatacata	gctggaaaat	gtgtggaaag	720
tttcttgatg	ttgagaaaaa	aagacagtg	cttggttaatc	aataaattcc	gtttattttt	780
cttttactat	gtcctttact	atatcataac	tgtagccttg	ctatatcctg	aactcctcac	840
aaaggccttc	tctgagccaa	ctaaattaat	gataaagaat	tgtaattctt	ggctgggtgc	900
tgtagtccac	gcctgtaatc	ccagcacttt	gggtcactga	ggtgggcaga	tcacctgagg	960
tcaggagttc	aagaccagcc	tggccaacat	ggcgaaaccc	catctctact	aaaagtacaa	1020
acattagctg	ggcatgggtg	catgcacttg	tagtcccagc	tactcgggag	gctaaggcag	1080
gagaatgact	tgaaccctgg	aggcggaggt	tgcagtgagc	caagattgca	ccactgcact	1140
ccagcctggg	caacagagcg	agactccatc	tcaaaaaaaaa	aaaaaaaaa		1190

<210> 271

<211> 1204

<212> DNA

<213> Homo sapiens

<400> 271

ggcacgagcc	cacgccaaac	ctctgggctg	gccaggetca	ctccagcccc	acagtcattg	60
ccaggactgc	ctttgacctt	acacagagga	aacatcttcc	acctgtcggg	aggagccgg	120

gggcggggat ttccatggca aaatttactg ttctctggtg atagagttct ttcagttttg 180
 ctacatgggtc ttgtggcaaa ggactgggtg caggtgcagc cttgggttatt tctggaaaca 240
 cttctccttt tcttttattt tgccaggtct ggctcatcag tcaccttctc ctcagaaagg 300
 tgattttggc tcctctgccc agaccatcaa acatttctgg aggtgtcaca agcttccgtg 360
 aggttctggt cctctgcgaat tgcaggaaga atccaaacat aggaaagggg tgatgtgtat 420
 caggggtgtcc atcctcagct ttgctccaca aagacctca cacttgccaca ttgttttggt 480
 aacagtatta tctctgagta gtgggtttat tgtttttgct tacctgtttt aaacacttct 540
 tcaacaaact tgctttactt tccatttttt aaaagtgtat ttcaattttt tattaataat 600
 gccattttac tcctgcaaaa tttctcactc cttcaaagtc tgtgtatggc aaagatcttc 660
 ctaaccatca ttcaagttag agcaactcca tttctgtatc aaaaagaaat acctttagtt 720
 attgtctgaa cttgtcagaa tttctgagaa cgatgccaga aattctgtaa ttgttttgct 780
 acattaattg aacaatgaga gggcaccagc attcctcact catgaggtag aagcaccaca 840
 tctacatttc tttttagcta tgggtgatgt ttttgctttt aaatcttaga aatctgttaa 900
 taaacaaata acacaacaaa gtttggggta cttccttggt gggactggga tgcttaagct 960
 aaaacaaagt ttaaatttgg actgtgtgtg ttatgtttcg cagaatctat atgtttctca 1020
 aaagtgggtg tcacctctct tcctcccca acacacctt caggggtaag aggagaagta 1080
 atgtagaaaa attaaactgt tctccactgt aaaagtaggg tgtctttaga atgtttcatg 1140
 ttcaaaggaa agattgtgct tctcccaagg caaggtgttc ccttaaaaaa aaaaaaaaaa 1200
 aaaa 1204

<210> 272

<211> 2641

<212> DNA

<213> Homo sapiens

<400> 272

gcctttctcca aaattggcat ctcttataga tggttcatct cctgttagta ttttgggtctg 60
 gaccacacaa ccttgagcga ttccagccaa tgaagctgtt tgctatatgc ctgaatcaaa 120
 gtatgtctgt gtgaaatgtt ctaagtctgg agacctctac gtactggcgg cagataaagt 180
 agcatctgtt gcttctactt tggaaacaac atttgagact atttcaacac tttcaggtgt 240
 agatttggaa aatggtactt gcagtcaccc attaatctct gataaagcct ctctctttt 300
 acctgcaaat catgtgacca tggcaaaaagg aacgggattg gttcacacag ccccagctca 360
 tggatggaa gactacgggtg tagcgtctca gcacaacctg cccatggatt gtctagtggga 420
 cgaagatgga gttttcacag atgttgacgg tcctgaactt caaaacaagg ctgtccttga 480
 agaggggaact gatgtgggta taaagatgct tcagactgca aagaatttgt tgaaagagga 540
 gaaattgggt catagctatc cgtatgactg gaggaccaag aaacctgtgg ttattcgtgc 600
 cagcaagcag tgggtttataa acatcacgga tcttaagact gcagccaagg aattgttaaa 660
 aaaggtgaaa tttattcctg gatcagcact gaatggcatg gttgaaatga tggacaggcg 720
 gccatattgg tgtatatcaa ggcaaaagat ttgggggtgtt ccaattcctg tgtttcatca 780
 taagaccaag gatgaatact tgatcaacag ccaaacact gagcatattg ttaaactagt 840
 ggaacaacac ggcagtgata tctggtggag tcttccccct gaacaacttc ttccaaaga 900
 agtcttatct gaggttgggtg gccctgatgc cttggaatat gtgccaggtc aggatatttt 960
 ggacatctgg tttgatagcg gaacttcatg gtcttatgtt cttccaggtc ctgaccaag 1020
 agcagatttg tacttggaag gaaaagacca gctcgggggt tggtttcagt catccttatt 1080
 aacaagtgtg gcagcaagga agagagcacc ttataagaca gtgattgttc atggatttac 1140
 ccttgagaaa aagggagaaa agatgtccaa gtctcttggg aatgtcattc atcctgatgt 1200
 tgtcgttaat ggaggacaag atcaaagcaa agagcctccg tatggtgctg atgtccttcg 1260
 ctggtgggta gctgattcca atgtcttcac cgaagttgca attggcccat ccgtgctcaa 1320
 tgctgccaga gatgatatta gcaagcttag gaatacact cgctttcttt tgggaaatgt 1380
 ggctgatttc aaccagaaa cagattccat ccctgtaaac gatatgtatg tcatagacca 1440
 gtacatgcta cacttactgc aggatttggc aaacaagatt accgaattat acaaaacaata 1500
 tgattttgga aaagtgttc ggctgttacg gacgttttat accagagagc tctctaactt 1560
 ttatttcagt ataatacaag ataggctcta ttgtgaaaag gaaaatgacc ccaaagcagc 1620
 ctcttgtcag actgcattag ttgaaatttt ggatgtaata gttcgttctt ttgctcccat 1680
 tcttctcac ctggctgaag aggtgttcca gcacatacct tatattaaag agcccaagag 1740
 tgttttccgt actgggtgga ttagtactag ttctatctgg aaaaagcccg ggttggaga 1800
 agctgtggag agtgcgtgtg caatgcgaga ctcatttctt ggaagcatcc ctggcaaaaa 1860
 tgcagctgag tacaaggta tcactgtgat agaactgga ctgctttttg agataataga 1920
 gatgctgag tctgaagaga cttccagcac cttcagttg aatgaattaa tgatggcttc 1980
 tgagtcaact ttactggctc aggaaccacg agagatgact gcagatgtaa tcgagcttaa 2040
 agggaaattc ctcatcaact tagaaggtgg tgatattcgt gaagagtctt cctataaagt 2100

aattgtcatg	ccgactacga	aagaaaaatg	cccccggtgt	tggaagtata	cagcggagtc	2160
ttcagataca	ctgtgtcctc	gatgtgcaga	agttgtcagt	ggaaaatagt	attaacagct	2220
cactcgagca	agaaccctcc	tgacagtact	ggctagaagt	ttggatggat	tatttacaat	2280
ataggaaaga	aagccaagat	ttaggtaatg	agtggatgag	taaatgggtg	aggatgggag	2340
tcaaaatcag	aattatagaa	gaagtatttc	ctgtaaactat	agaaaagaatt	atgtatatat	2400
acatgcagaa	atatatatgt	gtgtgtgtat	ctgtggatgg	atatatgtat	atctcttcct	2460
atatatatcc	atagtggact	tattcagaac	atagatatgt	attcagcttg	tcttcaaata	2520
cggccaagca	gaaaatgttt	tatatatttt	aaatcatctt	ttgactctgt	atttaaattc	2580
tatgatactg	aaaataaagg	cattctggaa	aaatactgaa	aaaaaaaaaa	aaaaaaaaaa	2640
a						2641

<210> 273

<211> 2836

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (152)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (153)

<223> n equals a,t,g, or c

<400> 273

aattcggcac	agccgcggca	gacggcgagg	acggacagga	cccgcacagc	aagcacctgt	60
acacggccga	catgttcacg	cacgggatcc	agagcgccgg	cacttcgtca	tgttcttcgc	120
gccctggtgt	ggacactgcc	agcgggtgcg	cnnacttggg	aatgacctgg	gagacaaata	180
caacagcatg	gaagatgcca	aagtctatgt	ggctaaagtg	gactgcacgg	cccactccga	240
cgtgtgtctc	gcccaggggg	tgcgaggata	ccccacctta	aagcttttca	agccaggcca	300
agaagctgtg	aagtaccagg	gtcctcggga	cttccagaca	ctggaaaact	ggatgctgca	360
gacactgaac	gaggagccag	tgacaccaga	gccggaagtg	gaaccgcccc	gtgcccccca	420
gctcaagcaa	gggctgtatg	agctctcagc	aagcaacttt	gagctgcacg	ttgcacaagg	480
cgaccacttt	atcaagttct	tcgtctcgtg	gtgtgggtcac	tgcaaagccc	tggctccaac	540
ctggggagcag	ctggctctgg	gccttgaaca	ttccgaaaact	gtcaagattg	gcaaggttga	600
ttgtacacag	cactatgaac	tctgtctcgg	aaaccagggt	cgtggctatc	ccactcttct	660
ctgggtccga	gatgggaaaa	aggtggatca	gtacaaggga	aagcgggatt	tggagtcact	720
gagggagtac	gtggagtcgc	agctgcagcg	cacagagact	ggagcgacgg	agaccgtcac	780
gccctcagag	gccccggtgc	tggcagctga	gcccagggct	gacaagggca	ctgtgttggc	840
actcactgaa	aataacttcg	atgacaccat	tgcagaagga	ataaccttca	tcaagtttta	900
tgctccatgg	tgtggtcatt	gtaagactct	ggctcctact	tgggaggaac	tctctaaaaa	960
ggaattccct	ggtctggcgg	gggtcaagat	cgccgaagta	gactgcactg	ctgaacggaa	1020
tatctgcagc	aagtattcgg	tacgaggcta	ccccacgtta	ttgcttttcc	gaggagggaa	1080
gaaagtcagt	gagcacagtg	gaggcagaga	ccttgactcg	ttacaccgct	ttgtcctgag	1140
ccaagcgaaa	gacgaacttt	aggaacacag	ttggagggtca	cctctcctgc	ccagctcccc	1200
caccctgcgt	ttaggagttc	agtcccacag	aggccactgg	gttcccagtg	gtggctgttc	1260
agaaagcaga	acatactaag	cgtgaggtat	cttctttgtg	tgtgtgtttt	ccaagccaac	1320
acactctaca	gattctttat	taagttaagt	ttctctaaagt	aaatgtgtaa	ctcatgggtca	1380
ctgtgtaaac	atcttctcag	gcgatataat	ccctttgacc	ttctcttgat	gaaatttaca	1440
tggtttcctt	tgagactaaa	atagcgttga	gggaaatgaa	attgctggac	tatttgtggc	1500
tcctgagttg	agtgattttg	gtgaaagaaa	gcacatccaa	agcatagttt	acctgcccac	1560
gagttctgga	aaggtggcct	tgtggcagta	ttgacgttcc	tctgatctta	aggtcacagt	1620
tgactcaata	ctgtgttggt	ccgtagcatg	gagcagattg	aaatgcaaaa	acccacacct	1680
ctggaagata	ccttcacggc	cgctgctgga	gcttctgttg	ctgtgaatac	ttctctcagt	1740
gtgagaggtt	aagcgtgatg	aaagcagcgt	tacttctgac	cgtgcctgag	taagagaatg	1800
ctgatgccat	aactttatgt	gtcgataact	gtcaaatcag	ttactgttca	ggggatcctt	1860
ctgtttctca	cgggggtgaaa	catgtcttta	gttctctcatg	ttaacacgaa	gccagagccc	1920
acatgaactg	ttggatgtct	tccttagaaa	gggtaggcat	ggaaaattcc	acgagggtca	1980
ttctcagtat	ctcatctaact	cattgaaaga	ttccagttgt	atctgtcacc	tgggggtgaca	2040

<211> 1607
 <212> DNA
 <213> Homo sapiens

<400> 275

ggcacgagcg	gcacgaggaa	gcagccacgc	ctggaaacaa	ttaaccagcg	tattttctggc	60
tttgtggatg	gatggatgat	ggcaccata	tggagctttg	gacctaaact	ttatgtggat	120
aagagttggc	tttttggctc	tcaagacccc	tggcctgcgt	actccagcag	caggagagcg	180
gatttacaac	atctcagggg	atggcagccc	tcttgcgtgac	agcaaagaga	tcttctctcac	240
tgtgccagtg	ggcggcggag	agagcctgcg	attattggcc	agtgacttgc	agaggcacag	300
tattgcccag	ctggatccag	aggccttggg	aaacattaag	aagctctcca	accgtctcgc	360
ccaaatctgc	agcagcatac	ggacccacaa	atgagacacc	aaagttgaca	ggatggactt	420
ttaatgggca	cttctgggag	cctgaagaga	cttcttccct	tcaggcttat	tgtttgagtg	480
tgaagttcca	gagcaaggag	ccatgttcct	ctaagggaat	tcaggaattc	agacgtgcta	540
gtccacaccc	agttaggtag	agctgtctgt	tcacctccc	atcccagctg	atcccagtc	600
ctgcttgctg	gggccatgcc	atggaagctt	cccatcagtc	tcccagctga	atcctccctg	660
ctctctgagc	tgctgccttt	tgctcctgc	aactcaacat	cctcttcacc	ctgccctgcc	720
tgcagttgag	ggggcgaaga	agaaccctgt	gttctcagga	agactgcctc	caccaccgct	780
acccagagaa	cctctgcatc	tggcatttct	gctctctatg	cttgagaccg	ggaggttttag	840
gctcagataa	gtgagctctg	ggccatgaga	gggtaggtcc	agaaggtggg	gggaactgta	900
catatcagca	gagcaggaca	gttggcagca	gtgacctcag	tagggaacat	gtccgtctac	960
cctctcgcac	tcatgacacc	tccccctacc	agccctcctc	ttcctcctcc	tcctcctcct	1020
gtggaggtgg	tcagtgggac	ttagggatct	ttcacctgct	gtgccagta	gttctgaagt	1080
ctgcttgctg	agcagtgttt	tatgtttatc	cctgtttact	gaagaccaa	tactggtttg	1140
gagacaactt	ccatgtcttg	ctcttctacc	tccctagtta	gtggaaattt	ggataaggga	1200
actgtagggc	ccagattctg	gagggtttat	gtcattggcc	acagaataac	tgtctctaag	1260
ctatccatgg	tccagtggtc	cctgccaaagt	ctgtagactt	cagagagcac	ttctctctta	1320
tggggttcat	gggaacaggg	gcgggtgtga	cttgcttggt	ggcctcattc	catgtgtgcc	1380
tgtgcctggg	gcatggactt	tggttaagcag	agtcagcagt	gaggctcctc	ttctccagcc	1440
agcctctctg	ccctggagaa	tcatgtgcta	tgttctaaga	atttgagaac	tagagtcctc	1500
atccccaggc	ttgaaggcac	atggccttct	catgtagggc	tctctgtggt	atttgtttatt	1560
attttgaac	aagaccattt	tagtaaaaca	aaaaaaaaaa	aaaaaaa		1607

<210> 276
 <211> 1064
 <212> DNA
 <213> Homo sapiens

<400> 276

ggcacgagga	agagtcagcc	ttcttctttt	cctggcctag	gtagtagagc	tcatatagaa	60
aaagtgagac	aatattggta	caaaactaca	ttattttattg	cttcactga	aatgtcaaga	120
ggcagcaggt	gaggcatgag	gatgggcagt	tctcagaagt	tttctgaac	ctacaggttt	180
atgttaattt	ttttatgtat	aatttgtctt	ccttgtttat	gatctcattt	ctagtctgcc	240
atgtaacccc	ttctcaaact	ttaaaaggac	ctcccttgag	ctggagctaa	cgagaccatt	300
tcttgtctgc	ttacaatttt	aaaaaaaaag	ctatttgcaa	gtaatttttc	tcattatgat	360
gctgttatca	taaagtgaga	ttccagtagc	caggggtgtca	agggatggta	tatggacagt	420
gcaactttga	cttactttac	tctacttagt	caaatttttaa	ctattttctg	gttcctttca	480
tttgaatata	atagttaaaa	taatgcagac	cattcacagt	tcatatgttc	tccctttggt	540
tttctctgac	tccacatgca	ctgacatgta	tagtttctgc	tgaatttatt	aatttggctc	600
agtttatctc	tgctgttaac	tttgatttct	tttctcctc	ttatctaata	tttttacta	660
tgatcagtat	gttccatgaa	atatatatat	tcttattttt	tctctcctaa	agtataaaca	720
aattgtcatt	gggaaaggag	aacacttttc	tctgactcac	ataatgtagt	agtaatcatt	780
catattttac	ttatttgtgg	ctgcataatt	gtaataggaa	gagtgtgtgg	ccaggggtgag	840
cgaagccaga	aaatatgttg	ctttggtagt	ttttccacat	tgctctcaaa	ttttcatata	900
ttttgcttat	ttactggscc	gtgtgtgaca	gtagtcacac	aaatagtacc	tattattgtc	960
taacttgggg	atgccatggg	gaaagggtga	rattttcttg	gcactggatt	ctgcaacact	1020
tgattaatct	taattctatg	gcaaaaaaaaa	aaaaaaaaaa	aaaaa		1064

<210> 277
 <211> 1738
 <212> DNA

<213> Homo sapiens

<400> 277

ggcacgagga	aggctttaa	taagtatgt	gacaataccc	caaactactg	gatgatattt	60
gtaatgaatt	tcaccctata	tcagtacaga	aggggtgtcac	agttcagcaa	aacaaaagag	120
aatacgcttt	gttaaaccctc	tactttctga	attttaggac	agtgaggaaa	tttaacattt	180
tcaatttttt	tttcttttct	tgactgaaaa	gaaagtcaag	ccagcaatat	gtttctgaga	240
gagcagtgat	gcatttcaca	acactgttaa	ctgtctgctt	ggctttttga	ggcttccaga	300
gttcagaatt	gtcttctctt	gaataggtca	gtgcattttt	ttccttcagt	ttttctcctt	360
aagcagcaaa	acagaccatt	taacttccaa	atattttacag	cttgcaaaca	gataaacttc	420
ccaaatctgt	ttttttttta	tgaaaaggaa	aacgatcagc	cacaataatc	tataatatga	480
tatatttgaa	tcaaagttat	tagatgccct	agggctcttt	catggcagat	tttatatata	540
accaccatta	ataaatctgt	tatcagaatt	atgtctttct	ctctgctgat	agttattttt	600
agactaacat	attcatacct	ccttctgatg	aaaaacatta	aaatttgaat	aaggcatatt	660
agaaaaccct	aaagctctgt	atttacacaa	aggagactca	taaatattgg	tttttcaggg	720
tgaagcattg	tgtgttattc	cattttgtac	cacagggaaa	gcctagtcac	acatggggcc	780
tcattaaaag	aggatctaaa	gaaatattta	atgggtgaaa	tataaggtct	tattctgaat	840
atctaccttc	actttataat	aatagaaact	gaactgaaaa	gattcagtaa	gtgattttaga	900
acatccactc	attttaaaag	taatgtctag	gcctaggaaa	gtgacatcat	gttccaaatg	960
ttacaaatcc	agcgtttttc	cttgatgtct	ttataaatat	attgtttaca	gtttttattc	1020
tcctccatat	atgatgcccc	ttttcttaaga	ttatttctgta	ggtatatcct	ttaatgagag	1080
aacctcataa	ataaacttcc	tgaatttgaa	aacgagttag	aggagacttc	aagtttggg	1140
actgagctaa	acatgtgtct	actctccctt	caaacatccc	atggaaatgg	cagtaaagac	1200
agaacaaaga	gaatacattt	ctgaatatac	tgaggaaacat	atactccaga	gagcagaaac	1260
aggaagaggg	gcctctgcta	aagctgaagg	agtcttcagg	aggttaacca	gctgggctct	1320
gtgttctgg	tggcagatac	agagagtagc	caagggtcaaa	agcagacaaa	cagaaagtga	1380
ggtgattggc	cacaggtttg	gaaatggctc	aggtttgctc	tttccaacc	cttgcatgtc	1440
actgcacatt	tacctccaga	agtaaagcag	gagaactctg	caaagggaac	caacaatctg	1500
catgggaggg	cattgcctcc	aagtgtgtgg	gctggcgacc	aagtgcagcc	ctctgcccta	1560
gttatgggag	ttggagaggg	acttactgg	ttgcatgttc	catgcaagag	ctaaagcaaa	1620
gcacatctcg	gagaagttag	ccaggaaagt	ggatcaatcc	atgccaacaa	cctatatata	1680
ttaacctgat	aattaatatg	tatataaagt	gaaaaaaaag	aaaaaaaaaa	aaaaaaaaa	1738

<210> 278

<211> 1772

<212> DNA

<213> Homo sapiens

<400> 278

aattctaaaa	taccaatgta	tttttagggt	gtagctaattg	ttgtattcac	tttcaattct	60
cagttgtcca	cactgggtgat	ataagaggaa	caaatacagaa	tcattaaata	ctttgtaattg	120
ccatcataaa	ctcatatatt	catcctcaaa	ctcccttggt	taatgctaatt	tgggtggcctg	180
gaacttcact	gagatgcaaa	atcaagaact	gaagcctagt	tgctagataa	caaaaagcta	240
taaatgttta	tgtatgtgaa	ttttaaatta	gaataaccgt	cttaaactcc	tacttgccat	300
ttctaaggca	aagcattcat	tttaatatg	tactttgcct	tttcattcag	ttagtggagt	360
aagtcatgaa	acccttagga	agaaaaacaa	gttatgactt	attcactaaa	attgatgcaa	420
gacagttgg	tctagatgac	catggccatg	tgttcatcat	ataaaaacct	cagttctctc	480
tatgggtgct	ggctggagat	tgacatgtga	ggatgtgcca	atcatattaa	atggatttgg	540
tctatgtggg	tgatatgtgg	cctgaatgta	actgtgatag	actgaaattt	gttcttagct	600
ctcaaaatcc	actgaagaag	tcaagtgaag	gtgggttaaaa	tagggagatt	agtgacaact	660
ttgtgcca	tttttttaaaa	aatggaagca	ggtagccaat	attagaatga	taatttaagg	720
gtgtgggtga	attttagtta	gttggtcacat	agttattgaa	cctcatatgc	tcagtgtgtg	780
gggaatcaaa	catggaagag	gtatggctcc	tgccccta	gagaacaagg	gggaaaaatc	840
cagatataat	ctaaatgcta	ggttatgtca	gggtatagga	acacagagaa	tgggggacct	900
gtaagaactg	gaagagtcag	agagggctcc	attgaagagg	tcaaacataa	ttccggaaag	960
aattaggtag	tgaggagatt	gtgccaggaa	aataagtggtg	aaaggccaca	gttatgtttc	1020
ctttgaattg	aagagagaca	aagctatcag	ctatagatca	ttgttttctt	aagacagcca	1080
aactggccct	ttgaaaccat	tcaaattacc	ccagtttagc	tccctacctt	ttagtctccg	1140
tgaggaagac	aagctgttgc	attatcatat	tcctctgtgc	tgagcagctc	aagactcagc	1200
cacaatatgc	aaattgcttt	aatgccatat	tacggcagtt	gatttagaca	tttgccagtg	1260
caccaaacca	tgagagattg	tcccgcacta	atgccacctg	gcagatgtgt	accagagat	1320

ttttctgtag	ctccatgttt	cccataaagg	gcattggaaa	tgcacagatg	aagatcttcc	1380
tttggaaacca	ggcacatttg	gcccccttct	agtgactgca	ctgtgggaac	tcttcttaag	1440
aaaatattga	aaacagctta	atgctttcat	atagtgaccg	acatttagtt	gaaaactact	1500
gctgcatagc	aaatattgtg	actcttcatg	tgtccacagg	agctcttggt	tgggtttaaa	1560
gctatgaagt	gtattcacat	tgtgaagttt	taattatctt	tattgaaatt	aattgtgtaa	1620
aatgggtatg	tgctctatta	gggtattcagt	ttgtatgtga	attctatata	gaaagtgggt	1680
tttgttcttt	gagtttgttt	tatttcttga	agattacaat	aaatatctaa	gagactatat	1740
tcctgaaaaa	aaaaaaaaaa	aaactcgagg	gg			1772

<210> 279

<211> 2048

<212> DNA

<213> Homo sapiens

<400> 279

ggcacgagtc	aaaggccacg	ggaacaaagt	cctgtgcatg	gactgggtgca	aagataagag	60
gaggatcgtg	agctcgtcac	aggatgggaa	ggtgatcgtg	tgggattcct	tcaccacaaa	120
caaggagcac	gcggtcacca	tgccttgcac	gtgggtgatg	gcatgtgctt	atgccccatc	180
gggatgtgcc	attgcttgtg	gtggttttga	taataagtgt	tctgtgtacc	ccttgacggt	240
tgacaaaaat	gaaaacatgg	ctgccaaaaa	gaagtctgtt	gctatgcaca	ccaactacct	300
gtcggcctgc	agcttcacca	actctgacat	gcagatcctg	acagcgagcg	gcgatggcac	360
atgtgccctg	tgggacgttg	agagcgggca	gctgctgcag	agcttccacg	gacatggggc	420
tgacgtcctc	tgcttggacc	tggccccctc	agaaaactgga	aacaccttcg	tgtctggggg	480
atgtgacaag	aaagccatgg	tgtgggacat	gcgctccggc	cagtgcgtgc	aggcctttga	540
aacacatgaa	tctgacatca	acagtgtccg	gtactacccc	agtggagatg	cctttgcttc	600
agggtcagat	gacgctacgt	gtcgcctcta	tgacctgcgg	gcagataggg	aggttgccat	660
ctattccaaa	gaaagcatca	tatttggagc	atccagcgtg	gacttctccc	tcagtggctg	720
cctgctgttt	gctggataca	atgattacac	tatcaacgtc	tgggatgttc	tcaaaggggtc	780
ccgggtctcc	atcctgtttg	gacatgaaaa	ccgcgttagc	actctacgag	tttcccccg	840
tgggactgct	ttctgctctg	gatcatggga	tcataccctc	agagtctggg	cctaatactc	900
ttctgacagt	gcactcatgt	atacctgaga	atttgaaatc	ttcacatgta	aatagatat	960
acttctagag	gagcttagag	tttattgcag	tgtagcttag	gggagcaacc	catggctcac	1020
aggctactaa	gcgtctccaa	tatgactatt	aaaactgtca	cctctggaaa	tacactagt	1080
tgagccttca	gcactgcgag	aataccttca	agtacagtat	ttttcttttg	gaacactttt	1140
taaaatgtat	ctgtttttta	ggttattcta	aattatagta	gcctcaactc	attctgtcac	1200
cagtagaatt	cagcagttaa	tatattccat	attatttctt	tgaatcaatt	catttttcaga	1260
gcactttaaa	gtctgatatt	tctcgatgtg	cactgtgatg	cctggaacct	tcctctggaa	1320
gtgctgattt	tatggactga	ggactgggtga	ctgggtctgtg	atagaagcaa	attccaattc	1380
caaagtgaat	tagacaaaaa	tcattttttt	agaatgtgtt	tttattgtaa	aagtatcttt	1440
ttcagcttcc	tggtctattg	tcttttttca	gatacaacat	ttttgtctat	ggtgaactgc	1500
tgtaaatgac	gcagagaaat	gcctaaaaag	gacaggtggt	ttgactcatg	gatgatgatg	1560
atgtcactgt	gccacttgga	cagggcggtt	tctctgaatt	gaagggaaa	ccaatgggtg	1620
ttgtaaaaca	atgcttctga	gagcaaagaa	aagtcttctg	tgtgggaaca	caagatagta	1680
aacttattta	aaaacctatt	agtagaatta	gtggaaacac	ttaggttaaa	gtgaatcttg	1740
tccatataaa	ttatattcat	ggcggggcgc	ggtggctcac	gcttgtaatc	ccagcacttt	1800
gggaggccga	ggcggggcga	tcacgagggtc	aggagtctga	gaccacgggtg	aaacctgtc	1860
tctactaaaa	aatacaaaaa	ttagccgggc	gtgggtggcg	gcgcctgtag	tcccagctac	1920
tcggagaggc	tgaggcagga	gaatggcggtg	aacccgggag	gtggagcttg	cagtgagccg	1980
aggctcagcc	actgcagcct	gggtgacaaa	gcgagactcc	gtctcaaaaa	aaaaaaaaaa	2040
aaaaaaaa						2048

<210> 280

<211> 799

<212> DNA

<213> Homo sapiens

<400> 280

tgctgggtgg	gttctgcttg	ctcgcaggcc	tgggtgctgg	cgtagtatca	cagtgcgtgag	60
cggcgcgggc	tacctgcaag	tgggcaggct	tttgtgcaag	agtgcgtggt	atgcaaggct	120
tggggcgctt	tggcgctgat	cacgccccgc	gttattactt	ctacttctct	gcaggcttgc	180
tcacctatgg	cgtcacagcc	tttatcgcat	taaacgtgat	catcaagaag	ggcaaacact	240

tcttggatcg	ctcgccggcg	cgggccactc	agatgctgct	gtacctgacg	gttgggttatt	300
ggtagtgatc	gtactgttca	cgattccaag	ttccaagaaa	gcgcgttaca	ttctttcgat	360
tacgccggcg	atttcattat	tggccgcgta	tatcttcctg	gatcgcagtc	agcgctttgc	420
aagtacccgc	gacaagttgc	tgaagttctg	cctcaactta	cctatggtcg	gcctgggcat	480
gttgttactt	gcctttatct	atggcctgta	tcagccttat	cgctgcggc	ctaactatct	540
tggcgcgtgt	gccgggttga	tcagccttat	tgccattcgc	tcttgggtga	cgtcgcgggt	600
tcatgcacat	ccacaccggg	agttcgtact	gttggtgttt	gggtgctgccg	ccttcctggt	660
cctggatatg	tttttcttca	attcgattac	ttaccacctg	gaattggccg	atgagccgac	720
acccaagttt	ctgccttatt	ggttctggta	ggcgcgttct	atcgcagttt	taactttcgt	780
ttggcgaccc	acaaggcac					799

<210> 281

<211> 1396

<212> DNA

<213> Homo sapiens

<400> 281

cctattcttt	ctccagactt	gatggacaac	atggttatat	gtcttttaga	aatgacgatg	60
taacaggggt	ttgccagcag	agtcggggtc	cccagcttta	tgagaactgt	aatgttgctt	120
tctcgtggca	gagcaatctc	aaaagcttct	gaaggaagga	aggaaaatga	agtaagcagg	180
atgatttagg	tctgcaaact	gctgtgggtc	ccgaccccaa	tctggttcag	agaggatgtc	240
ctctatgaca	actttgttcc	ttccctcctt	ttctgagaag	aaggggtggg	caaaatgaca	300
gttccgacct	tagcaatgaa	aaagaaccag	gatgctgcca	gctgggtcact	gacatgtgtt	360
tcttgtttgc	attattaatt	tttctacaaa	ttgaaaacac	tataccacat	tctagatgtc	420
ttgagcagta	tgctgttaga	tatcccatct	gagcagtatt	aaataacaac	cagagtaacc	480
accacacctt	ttctcaacat	gacagtagaa	caaagtctac	acacagaaac	catccatcat	540
aggagagacac	atztatctgc	aaagagctgc	tgctcccttgc	cctgggtgct	ttatatgccc	600
agcacatata	cacatacaca	cgtacgtaca	tacatacata	tgtatgtacg	tatggtagtg	660
ggggctagaa	aaacatttgc	agaaattaga	tataatcata	ttgtatcaat	gaacttgga	720
agttagagca	aaacaatgct	atttatctcag	attgggggtt	agaaaaaaca	cctgagcaaa	780
cagtatcaag	caagttaggt	gggggttggg	tattaaacag	aattgtacaa	atgtcagagt	840
agggctctgg	ttcacaaaca	agcccaatct	ccttcccat	tgctttgctt	gattgattaa	900
gtgctcttag	accaagaagg	gagagccact	ttctccttag	ctgacactgc	ccctgcccta	960
tcttggattc	tgattatgag	tctccgggca	gctgatggcc	tggaacagc	agatgatggg	1020
aagatcgtct	gtaggtaaat	cctgtggagg	gagcctaggg	gctcacagtt	catgtagcac	1080
catgttctgg	tacaaacagc	tggtagggat	ctgttatcgt	gctggcacac	aaatgggtgct	1140
tgataaacag	ttagtgaatg	aatagcaatc	taatcagaag	cctttgtttc	ccatctattc	1200
ttttttccct	ccttgtaaaa	atztattttt	aaaaaatcaa	ccttattgac	agtaattttac	1260
acacattaaa	aaggactcac	tcatttttgag	agttttgaca	aatgtatata	ctcatgtgac	1320
caccacagtc	aggatatata	aatattttcc	tcacctcaa	aagttcccgg	aattcgatat	1380
caagcttatc	gatacc					1396

<210> 282

<211> 2945

<212> DNA

<213> Homo sapiens

<400> 282

ggaattccaa	ctatggcctg	ctgcctgttt	ttggctgggtg	agctaagaat	gattttttaca	60
tttttaaat	attggaaata	tcaacaccgg	aattatatatt	catgatattgt	gaaaattaca	120
tgaagttcaa	atctcagtgt	ctagaaataa	agttttattc	gcacacagcc	tgctcatttg	180
tttacctatt	gtgcatggcc	actttcacat	tacagtggca	gagttgaaca	gctgctgcag	240
agactagcca	caaaactaat	aacgtttact	gcttggccct	tacagaactt	tgccgagccc	300
tcatttaaag	taatagattt	aaacagtctc	cataagcagc	tgctggcttt	gaaggtaggt	360
gcagccacta	gtgcttttct	tggcagattc	attgccaaag	aacagtttgt	taagtaattc	420
ccttgttttg	tgtgccaggc	tccataaaga	aagggttctc	acgctcaaat	atatgggcaa	480
taccttaatgc	tatgtatgta	tatgtgattt	atttctctct	agggaacaaa	cctgtataat	540
tgcttaatgt	agtcctctta	aaaggtagaa	aagggtcctt	tggtcaaata	attgtaggaa	600
aaagattgac	aatcacagtg	ctgagaaggc	ctccaataga	gaagttgggt	tagttgttcc	660
tcgatctccc	acctcctcct	tttgagctca	gcctttttaga	aattaatcat	tgctcctctc	720
tcttgcccct	gagtgggaagg	gatgaggccc	atgggctttg	tatccctagg	aggagaaaga	780

09500801201

```

gccagtaagt gaggagcttt taaagccctt tctttgtggg aggggccaca aggggccagg 840
tctcttaggg ctgagaaagc caaggccagc atttctcaga gtgctgtcag gactgtctgc 900
ctcagaatca tctaagggac cagctaaaac agactctggg gccatttcag actcactggg 960
cagtagagct caggaatctg catgatgttg ctgacgaaag cttagggttg atttccctct 1020
ggtgtccctt cccaagagct tgaagatcct gtctccttcc tcctctgtcc caacctggct 1080
tggataattt ttgaatgaat aataacacct gccacttata agtgtttatt ggggtgctgag 1140
ctgatctcat tggatttttt ttttttcttg agacagagtc ttgctctgtc acccagtcac 1200
ccaggctgga ttgcagtggg gtgatctctg ctactgcac cctctgcctc ctgggttcaa 1260
gtgattcctt ctgcctcagc ctcccgaata ggtggggcta cagacacacg ccaccatacc 1320
tggccaattt ttgtattttt atagagacgg ggtttcgcca tgttggccag actggtctcg 1380
aactcctgac ttcagctgat ccacatgcct aggcctcaca aagtgtctgga attataggtg 1440
tgagccaccg tgcccggcct gatctcattt ggatctttgc agcaatttga tgaattgggt 1500
gttctcgtaa tccccagggt acaggcaact gaggcccaga agaaggttg taaatgttta 1560
atgagttaag acatagcgcc aggggttcag tgggtgaggg tctgacacca gacagatgaa 1620
gggtcgctcg ctacagtgc ttgagtacct gagctgggcc agatttggac ccgatggtgt 1680
gaggaacctc caccctctta atgctggcag aaaggagtgt ggggagggca ggggtggag 1740
gaggatggtc ttcgccttgt tcaaggcagg cagcagcctt tccctctca cgggtgggcaa 1800
gttctctgct tgcccagtc cctgggcctc ggagcactaa ggctggccac ctgctagggtg 1860
ggaaggcccc aaacggcttc tcatcctgcc tgcctccact cctaccagaa tgacctcacc 1920
tggcagggag ggtggcccca gggccctgtc agctctgttc ctgccagcca ggagggctct 1980
ggagtccctc ccaagcctgc cgcaagcca gagggcacat ccaagaggca agtgtaaagt 2040
cctgtttcct tcatcctcag cagcacaag ctctggaggc tgggaaggcag caggcagggc 2100
cagaaggtat tttcatcttt cctggaactg cgttaaaggg ccctgggcag tgaaggagcc 2160
agagccattt cctgcgtgct tacagcatgc caggtgcctg gccacacact gccacagga 2220
tcagcttgaa ccctcagcag cccgcctgg tagggccagc cgctctccca tttcacagat 2280
ggagccgtag gggctctcct caaaagtcac acagttagga gatagccaaa ttcaaactcg 2340
ggtgcatcca tccccgtcca gggctcgttt cttacctacc ttgccccct gctaactcgg 2400
acacctcttg agtttggcat ccaagagcag aacctggatc ccgggggagg gaggcacagg 2460
gaggcgtgaa ggatgggaac cagcctcccc tgggctgctt gggccggctt ccccttgc 2520
agtctctgtg cccttaactg cggccttggg cagggggcgt aacctttgca ggtgacgctt 2580
gggtctcctt gttggaagac cggcaagatg ccgtgtactt actttaagaa gcaaataag 2640
gttgggcgcg gtgctcacgc ctgtaatcct agcactttgg gaggccgagg tgggcggatt 2700
acttgaggtc aggagttcaa gacctgccca accaactagg tgaaacctg tctccactaa 2760
aaacacgaaa attagctgga tgtggtagta ggctcctgta gtcgcagcta ctcgggaggc 2820
tgaggcagga gaatcacttg aaccctggg ggcagagggt gcagtgagcc aagatcgtgc 2880
cactgcactc cagcctggat gacagagtga tactccatct caaaaaaaaaa 2940
aaaaa 2945

```

<210> 283

<211> 1667

<212> DNA

<213> Homo sapiens

<400> 283

```

ggagtgcagt gggagtgcggc cggccggcac gggcagcgcc gggaccccg cggggacact 60
gcagccggag cccgggagg ggcgcgcgc caccgtctga actaggatgt cccgacatga 120
aggtgtcagc tgtgatgcat gtttaaaagg aaattttcga ggtcgcagat ataagtgttt 180
aatttgctac gattacgata tttgtgcata ttgttatgaa agtgggtgcaa caacaacaag 240
gcatacaact gaccacccaa tgcagtgcac attaacaagg gtagattttg atttatacta 300
tgggtgggaa gctttctctg tagagcagcc acagtctttt acttgtccct attgtggaaa 360
aatgggctat acggagacat ctcttcaaga acatgttact tctgaacatg cagaaacatc 420
aacagaagtg atttgtccaa tatgtgcagc gttacctgga ggcgaccta atcatgtcac 480
ggatgacttt gcagctcatc ttacacttga acacagagcc cctagagatt tagatgaatc 540
gagtgggtgt cgacatgtac gtagaatgtt tcacctggc cggggattag gaggtcctcg 600
tgctcgtaga tcaaacatgc actttactag cagttctact ggtggacttt cttcttctca 660
gagttcatat tctccaagca atagggaagc catggatcct atagctgagc ttttatctca 720
gttatcagga gtgagcgtt ctgcaggagg acagcttaat tcctctggcc cttccgcttc 780
tcagttacaa caactgcaga tgcagctgca gctagaacgg cagcatgccc aggcagcacg 840
gcaacaactg gagaccgcac gcaacgcaac ccggcgctact aacacaagca gtgtcaccac 900
tacaatcaca caatccacag caacaaccaa catagctaata acagaaagca gtcagcagac 960
tctacagaat tcccagtttc ttttaacaag gttgaatgat cctaaaatgt ctgaaacgga 1020

```

gcgccagtc	atggaaagcg	agcgtgcaga	ccgcagcctg	tttgtccaag	agctccttct	1080
gtccacttta	gtgcgtgaag	agagctcatc	ctcagatgag	gatgatcggg	gggagatggc	1140
agatttttgt	gctatgggct	gtgtagatat	tatgccttta	gatgttgctt	tagaaaacct	1200
aaatttaaaa	gagagtaata	aaggaaatga	gcctccacca	cctcctcttt	gatgacatcc	1260
caattcgcag	acaatgtcct	ctgtgctgta	tttgccaatg	aaagtggaca	acaactatct	1320
tgggttttgt	tgggtgattgt	aatttcagggt	ctgtcactct	tgttacattg	tgtacattca	1380
aaaggaagag	agaaaatata	tatgataatc	atttccactt	aactaatttt	tacttctagc	1440
aggtaaagt	aggtagcagt	gcaggggtga	tctctgcttc	ctgtaccttg	acatgcaaaa	1500
ggctctccta	atactccaca	ttcaaactga	agaggaaaat	tgaaatctct	aatgaagctg	1560
ctgtgtgtat	ttatgaatat	taatgaataa	aaactgcttg	gatgggtttac	cttaaaaaaa	1620
aaaaaaagga	attcgatatc	aagcttatcg	ataccgtcga	cctcgag		1667

<210> 284

<211> 1724

<212> DNA

<213> Homo sapiens

<400> 284

caaggaagga	aggaaaagag	aagagagact	gattggatgc	tgctgcagtg	gtccaggcaa	60
gtgattgtgc	tggcttggat	gggtgttagc	agtggaggcg	gtgagaagtg	tcagggtctg	120
ttcatgtcta	gaaggcagaa	ccagcagggt	ttgggtgatgg	attggatgtc	aggagtgaga	180
ggaagaaaag	agttaggaca	actccaaaa	ttggggcctg	aggagcagggt	ttggggacga	240
gaaaataaga	atttcctgtc	aggagcaccc	agctcctgtg	catttgccat	tctgcagtc	300
accccatgca	caccgtaaca	caccagccta	aggatgctca	tgccccacc	tctgggaagg	360
cccccatct	tttctgccct	actccaggct	ctgtccccctg	agagtcattt	tctctcactg	420
atccttttct	ggcccttctg	agaggctact	aaaatgtcca	agtggaggat	ggctaacacc	480
ccttcttcat	cactgccctc	agatgctgtg	agggcacaca	atagaccca	taaagctgat	540
aaagctacta	gggatagaag	gggccccagt	tgccctccag	aggctgctgg	tctgtcttcc	600
ccaccagcc	agtgcgcct	gtgttttgtt	cttcccttgc	ggccccccgc	attccttgta	660
gtgctgaaaa	taggacactg	tgacttgctt	tctgcagggc	aattgtcctg	gaaattgtag	720
aatttctttt	tgtgttgctt	tcctactggg	acctctttat	attccacctc	tgtagccaag	780
taggatgaga	tttcaagcaa	gttgaagtta	tatataatga	atttaacaca	ttggtaagct	840
tctaagctaa	ctgactttca	actggaagca	atactaagaa	caacagatat	ttggtatact	900
caattttttt	tttctctcag	atttgcattt	tgcaagctct	actgtacccc	cagcaaagag	960
gaaagaaaaa	tctagctctc	ccatggctct	aaagtttcta	gaaatggaag	ctctcttact	1020
gagcctctgt	ttcttcccc	acctctgccc	caccccagggt	gtggggcaaa	ctggtacctg	1080
gagcacctga	taccatctgt	aagtcctgac	agcagctctgg	caagaggcaa	ggacaggcca	1140
gggatagaga	tggagtgggg	aacggagcac	ctgagctggg	gagccacaca	tccgggacac	1200
tgggaaagga	aaggagggag	atggtggctt	gaaatacaaa	attagccggg	cgtggcacac	1260
acctgtaatc	ccagctactc	aggacgctga	ggcaggagaa	tcgcttgaa	ccgggaggcg	1320
gaggttgtag	tgagccaaga	tcgtgccact	gccctccagc	ctgggtgact	gtgcgggact	1380
ccgtctcaaa	aaaaaaattt	ttttttaaa	cccaataaaa	gggctggggc	cgggtgctcac	1440
gcctgtaatc	ccagcacttt	gggacgccaa	ggcaggtgga	tcagctgagg	tcaggagtec	1500
aagaccagcc	tggccagcat	agtgaacccc	catctctact	aaaaacacaa	aaattagcca	1560
ggtgtggtgg	tgggcacctg	taatccccagc	tacacgggag	gctgaggcag	gagaatcact	1620
tgaaccaggg	aggcggagggt	tgcagtggagc	caagattgtg	ccattgcact	ccaacactcc	1680
agcctggggtg	acagagcgag	actctgtcta	aaaaaaaaaa	aaaa		1724

<210> 285

<211> 2249

<212> DNA

<213> Homo sapiens

<400> 285

ccgcagcaca	gtcacatcct	actgaacatc	atcctgtttct	ctgggtggaa	tgtcaccatc	60
gcccagggtg	ggatttttgt	gtgttttgtt	cactgtctga	caccagccc	ccagcacagc	120
gcctgtccag	gacaagtgcc	cagtaaacac	ttgggaagca	atgcaagcgt	cctcccagca	180
gctcctgcaa	acagaccccc	gacccaagcc	cttccctctg	cctccactgc	caccactgct	240
gctcatctct	gctggcacag	aagtctcttc	cctggtcttc	cagaaatccc	ctctccacac	300
tcagccagag	ggagctatta	aaactgcggg	ccagcccaca	tcagtccaca	gcaaagtcct	360
ctctaaggga	tctttgttgc	ttggagaata	aaccctcgga	ttccttcctt	ggctctcggg	420

T02T60-2805650

gcctcctctc	tgacctccct	ctgtctcctc	tcccagcctt	cctcctcact	caccctccag	480
ccatgctggc	ttcctccttg	ctcctgaaac	agcctgaggc	ccacactgcc	ccggggccctt	540
tgcactggct	gtttcctctg	cctggagcac	ttctcctagg	catccacagg	gctcctctcc	600
acaactcctt	cgggtgcccc	catgggaagc	catccctgac	cacccccccg	acttccttct	660
gagcaaggta	gggtctttct	acctagtcac	gagggcaggg	atTTTTgtct	gttgtgttct	720
ctgtgtgccc	ccagtgccat	cccagtgcct	ggcagatggg	aagtgtctga	cacacattgg	780
ctgactgcct	gaatgaacaa	ctctatgagc	cgatggcaga	taaggacact	gaggtcctct	840
ggggtagggtg	accagcccaa	ggccacacag	ctggctctgag	attaggccag	gagaggagcc	900
cgggttggtc	acatcctgga	gttggcgctc	tggaaactgc	atcaggagaa	taacaaagat	960
gagacgcagg	ctctaacaag	tggataccag	tgactctcgc	cccgccagcc	ccagcctgca	1020
gccttggggc	cttccaggag	tcattggtctg	cctgcctggg	gcattccagg	cttcgacca	1080
ggctctgcac	tttctatttt	gagcctctta	gtcctgagga	ctgtgtgttc	ccagcaggcg	1140
gcgcgggcca	gaggctgagc	ctgggtgtgg	ctgtcaccct	atctggggcc	agagaccag	1200
attccccggc	ccttaacctg	ttggctgctg	agggctctgg	cataagccct	gttccctgct	1260
tgattgtctc	cccttcaagc	ccctgcccctg	gtatcgtatc	ggcccatctc	accttggatt	1320
atatccctgt	ttggccccat	ttgaatcctg	gctctgcccc	tttccagcaa	tgtgaccttg	1380
ggcaagtcac	ttcatctctc	tgggtctcag	tttcttcac	tgaggaaatgg	ggacaataag	1440
agtacctgtc	tctggccatg	tgtggtgact	catgcctgta	acccagcgc	tttgggaagc	1500
cgaggcgaga	gaattgcttg	agaccaggag	tttgagatca	gccttgggca	acatagttag	1560
acccctgtct	ctacaaaatt	ctaaaaaaat	tagccgggtg	tggtggtgtg	tgctgtagt	1620
cccagctatt	ctagaggctg	aggcgggagg	attgtctgag	cccaggagtt	tgaggctgca	1680
gtgagctgtg	attatgcccc	tgcacatcag	cctgggtgat	agaattgagg	ccccatctct	1740
aaaaataaca	atactaataa	taaaataaaa	tgaaaatgag	tacctgtctt	ctggggttgc	1800
agaggagatt	caatgtgatg	aaattgatga	gagtgccttg	cagggagccg	gaaactcagg	1860
gagcatcgat	aatgagtccc	ccaccatcag	cagctggctt	aaatataaaa	actgtcatgg	1920
cctctggaga	aatgacaaga	attcgaagga	gcttccctgc	attggccacc	ctacacccta	1980
cacccttact	tcctccccctc	aacttgccctg	gatttatcga	ccccactac	cccactgggt	2040
gccttctctc	cacctggcac	atttcgtatg	aatttgcttg	ttggttcttg	cctatctccc	2100
cagtagaaca	ttagctcctt	caggacaggg	acttttgtct	accttatgca	cctagtgcga	2160
tgcttgccac	acagtcgggtg	cttaataaat	gtttcttaaa	agaaaaaaa	aaaaaggaat	2220
tcgatatcaa	gcttatcgat	accgtcgac				2249

<210> 286

<211> 2205

<212> DNA

<213> Homo sapiens

<400> 286

gtcgacggta	tcgataagct	tgatatcgaa	ttcctttttt	ttacaagggtt	ttgtttacaa	60
agccaagaaa	agataaaaaca	ttttaagttg	gtactgccct	cgaaaattat	gggtggatgta	120
cacttggact	ttctaaaaca	agatctgaat	aaaataagac	acttaacatg	aaaaactcta	180
tttaacacaa	tttaatcttt	ctttgattcc	tgagtgggta	attcggcatt	ttacagaact	240
ttgggggtcac	cattataaat	atcagctgtc	actgtactgg	taaaatataa	aatgtaccag	300
tttaataatag	ctttgcaatt	cacagaaaat	cagataatgg	aggttttacc	gtaactggaa	360
ttatgatgtt	aaaagaatca	atgcactttt	ccaaaagagc	ctaaatcatt	tctaggaaat	420
aattcatgcc	ttgtaagaat	ttacaaggaa	gtgcttgata	ctccctggaa	aaaatcagta	480
gttcttcatt	attaagtttt	catttttgc	gtgtacttca	ttgtattatt	attgtgggta	540
atcctatgtc	cacggccctg	gcctcgaacc	acacaggctc	ttcttaaata	aagtggaaga	600
tttctttggc	ctgtcctaaa	tccaaggaac	aatatgcaac	tctgcaagtg	catatcacia	660
gaagtctttt	caaggctcgtg	ctcttgggtga	ccctttgttt	aaaggaattt	gggctggatt	720
tatagttgtc	agttctgaag	aatcaggaaa	gggcaggccg	tgaaggggtg	ggggaggaaa	780
agagaaggaa	agagggaggg	agggaggagg	gcagaggctc	ataccacaca	gtactgagcc	840
accaaggaca	gagtttctac	actgtttcat	tagaacatga	aatctactct	gttgtctatg	900
cgtctgctgt	gagctgaaaa	gaagtacgtt	tacttctcca	gcactctggg	tcccataatt	960
ctgagtcgtg	gccacattac	ctctgctact	gaaaaggcaa	gagctgggtt	gctcagacag	1020
ccccgcagtt	cacactgcct	gtgctgcagg	caggaagggtt	tccacccaaa	ggccggcaga	1080
gggagggtgt	gccccctggc	gggtgggctg	ggctgggggtg	aggaggggca	gggaagaaag	1140
ggaaggagac	ttccttttta	atgctggttc	tcttctcagt	ccaatccaag	tctctccatg	1200
gaaggatgga	aaattctgat	ttcctgtatc	tctttgaaaa	caatgaaatc	cactctcccc	1260
ggagggcagg	tttgctgaag	ctggttggtc	cggctggcat	gcacagcctt	ggctaagtag	1320
ccacacagca	cagcatagac	atccccggcg	actgaaggct	cacaaccagg	agcctacccc	1380

atgcactccc	tccccagcac	cgggtcaccg	cagccagggt	tcctggggcc	tccggaatgt	1440
cagggagccc	ctcactgcct	cttgggtggc	aggaaatcac	taagctatga	ggataaagac	1500
cagccggggg	ctccatgcag	ctttagggct	gatttctatt	tccccttggt	gtgggtgaagc	1560
agatttcaaa	ctgcactcaa	tacagtcccc	agcacaggag	aaatgaaacc	ctttaaatct	1620
taggccttca	cgcaggagcc	tcccctgcag	ctttcaaaact	cacagaagcc	ttttgttaca	1680
gtcctaggaa	tgtgtactta	gcagagaaaag	cgtgcctttg	tgggtggctgt	gaaagaatac	1740
tgagggcggt	ggcgggggaa	gaagagaccc	gcctctggta	agatcctctc	ccgaagtctg	1800
atggcagcca	gtctcagaaa	acaagaaaat	ccaccaaggg	acaagggtact	caaccacccc	1860
cagggctctc	ccaaaagtgt	cggagtgaga	ggaaggaaaag	actaaatat	atttgagtat	1920
gtgagtgcgc	gcagggggag	gagtgagcta	aaggggtttt	actgcattgg	ttgctataat	1980
ttgtgggggg	ttcctaagaa	ttattcccat	atccttcccc	aagggaacct	gtgaggaaac	2040
tggcagctgc	ttattgtgat	ctagtgtaac	agcacatagt	acagccaaaa	tactgcaagg	2100
aattagaggc	ggaagggggc	tcaggactga	tcttcaccag	ttttctggta	agatttgtgc	2160
aaaactccag	tgaagagtgt	gcacgcgggc	aatttctcca	aaatg		2205

<210> 287

<211> 3839

<212> DNA

<213> Homo sapiens

<400> 287

ccacgcgtcc	gcccgcctgc	tgggagagag	gtacctctcc	ttttccctct	ccctttccct	60
aagagttgtc	tgctggttct	cagcttgaag	aagattctgc	agtccttatt	gatacttttt	120
cttggcggtta	ccattttttg	aagcaaaagt	aacctagctt	tctagtttga	gctttctttt	180
tggccgtctt	taaaaaaaat	ttttttttta	atctataaaa	tagacaagag	ctagttctac	240
aatgtccaag	tcattccagc	agtcactctc	cagtagggac	tcacagggtc	atgggcgtga	300
cctgtctgcg	gcaggaatag	gccttcttgc	tgtctgtacc	cagtctttaa	gtatgccagc	360
atctcttgga	aggatgaacc	agggtagctc	acgccttgct	agtttaatga	atcttggaat	420
gagttcttca	ttgaatcaac	aaggagctca	tagtgcactg	tcttctgcta	gtacttcttc	480
ccataatttg	cagtctatat	ttaacattgg	aagtagaggt	ccactccctt	tatcttctca	540
acaccgtgga	gatgcagacc	aggccagtaa	cattttggcc	agctttgggc	tgtctgtctag	600
agacttagat	gaactgagtc	gttatccagg	aggacaagat	tactcctgag	aatttgcccc	660
aaatccttct	acagcttaaa	aggaggagaa	ctgaagaagg	ccctaccttg	agttatggta	720
gagatggcag	atctgctaca	cgggagccac	catacagagt	acctagggat	gattgggaag	780
aaaaaaggca	ctttagaaga	gatagttttg	atgatcgtgg	tcctagtctc	aaccagtgcc	840
ttgattatga	ccatggaagt	cgttctcaag	aatctgggtta	ttatgacaga	atggattatg	900
aagatgacag	attaagagat	ggagaaaagg	gtagggatga	ttcttttttt	ggtgagacct	960
cgcataacta	tcataaattt	gacagtgcgt	atgagagaat	gggacgtggg	cctggccccct	1020
tacaagagag	atctctcttt	gagaaaaaga	gagggcgtcc	tccaagtagc	aatattgaag	1080
acttccattg	actcttaccg	aagggttatc	cccattctgt	ctctatatgt	gatttggccag	1140
ttcattctaa	taaggagtgg	agtcaacata	tcaatggagc	aagtcacagt	cgtcgatgcc	1200
agcttcttct	tgaatctctc	ccagaatgga	atcctgacaa	tgatacagga	cacacaatgg	1260
gtgatccatt	catgtttgcg	cagtctacaa	atccagcacc	aggaattctg	ggacctccac	1320
ctccctcatt	tcattcttgg	ggaccagcag	ttggaccaag	aggaaatctg	ggtgctggaa	1380
atgggaaacc	tgcaaggacc	tagacacctg	cagaaaggca	gagtggaaac	tagcagagtt	1440
gttcacatca	tggattttca	acgagggaaa	aacttgagat	accagctatt	acagctggta	1500
gaaccatttg	gagtcatttc	aaatcatctg	attctaaata	aaattaatga	ggcattttatt	1560
gaaatggcaa	ccacagagga	tgtctcaggc	gcagtggatt	attacacaac	cacaccagcg	1620
ttagtatttg	gcaagccagt	gagagttcat	ttatcccaga	agtataaaaag	aataaagaaa	1680
cctgaaggaa	agccagatca	gaagtttgat	caaaagcaag	agcttggacg	tgtgatacat	1740
ctcagcaatt	tgcgcatttc	tggctattct	gatagtgtct	ttctcaagct	tgtgagcct	1800
tatgggaaaa	taaagaatta	catattgatg	aggatgaaaa	gtcaggcttt	tattgagatg	1860
gagacaagag	aagatgcaat	ggcaatgggt	gaccattgtt	tgaaaaaagc	cctttgggtt	1920
caggggagat	gtgtgaagg	tgacctgtct	gagaaatata	aaaaactggg	tctgaggatt	1980
ccaaacagag	gcattgatgt	actgaaaaaa	gataaatccc	gaaaaagatc	ttactctcca	2040
gatggcaaa	aatctccaag	tgataagaaa	tccaaaactg	atggttccca	gaagactgag	2100
agttcaaccg	aaggtaaaga	acaagaagag	aagtcgggtg	aagatgggtg	gaaagacaca	2160
aaggatgacc	agacagagca	ggaacctaat	atgcttctgc	aatctgaaga	tgagctactt	2220
gtagatgaag	agaagcagc	agcactgtct	gaaagtggca	gttcagtggg	agacgagacc	2280
gatcttgcta	atttaggtga	tgtggcttct	gatgggaaaa	aggaaccatc	agataaagct	2340
gtgaaaaaag	atggaagtgc	ttcagcagca	gcaaagaaaa	agcttaaaaa	gcgtcgtttt	2400

```

ccagggagta tgggaaggttt tgtcactcta gatgagggttg gtgatgagga agattcggaa 2460
cttcagaaac ttcgtaaatec gggcatggca tttaaatctg gtgacaaaaa tgatgatggt 2520
ttggttgaaa ttaagggtga caagatcgag gaacttgatc aagaaaaacga agcagcggtg 2580
ggaaatggaa ttaaaaaatga ggaaaaccca gaaccagggtg ctgaatcttc tgagaacgct 2640
gatgatccca acaaagatac aagtgaaaac gcagatggtc aaagtgatga gaacaaggac 2700
gactatacaa tcccagatga gtatagaatt ggaccatatac agcccaatgt tcctgttggg 2760
gagatttaag tctttgttct tcaccttctc cactctctctc aaaaacaaact cttagggtttt 2820
aaaataagat tttaaagttg gtcttacata agctgtgata gcatttttaa tttgctttgt 2880
ttctatgggg aacaatttat aaatcttaat tgatatattt tcctctcatg catgtctctg 2940
atthttgtatt atthttctggt gttattccac aatgtgttcc cttttttctg aaaatttctt 3000
gcaagttaca cgcttttgtt ttgcttttct gtgttgtttt tctgtattat atthttttt 3060
ttaagaatac agttagggtga gacctcaaac atcaattagg taaaagcaaa atatggttcg 3120
gtttttgttt tttatcttag gctgtatttg acttctcaaa aacatgttgt ttcattttaa 3180
ttatgttgac aggtgaaatt gtgaatacta aataaaatct tcagtttaat ttgtaagaat 3240
gtatgtttgt atthttaggt atagactatg tgatacctaa aacagggttt tactgtaagc 3300
tgtgttcact cttttataca aatgaagaag ttgcaaagaa tactcattgc agcagccttc 3360
ctcattatca gaaattaaag aaatttctga ataaattggc agaagaacgc agacagaaga 3420
aggaaactta agatgtgcaa ggagatttaa tgatttcaaa gaaaataatg gttctttgtt 3480
tttaatgtta acctttttta aatacaatac tgatagttag aagaaaaacta ttgtactctt 3540
ttgttttagt ggagaaataa tagatgtctg ttcattgtgt aagtgttata gcaaaaaaaa 3600
tacacatatg gtttaagttaa tgaatagttt ttgttttatc agaattggca cagacagaag 3660
tactttgtag agattgactt cctaagctac ttaagacaac ttgcaccact aagaaaaaaa 3720
tgtagaacca tttggaaaaa tgaaatttag tagttccaag tttcaaagaa atgtcaacat 3780
tttattccat tcaataaaga acaaaaccaa aaaaaaaaaa aaaaaaaaaa aaaaaaagg 3839

```

<210> 288

<211> 2000

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (99)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (580)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1790)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1858)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1862)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1904)

<223> n equals a,t,g, or c

<220>

0950032-091201

<221> SITE
 <222> (1913)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1951)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1985)
 <223> n equals a,t,g, or c

<400> 288

cgccccaggc	cgccctggtct	ggcgctggag	gccggagtc	cgccggcctgt	gctggatccg	60
cgcacaccca	gtggcggcgg	atgggcggcc	ggggcggcng	gagcggcggg	tcctgagcgc	120
ggcccgggct	gtcagggctg	gctgctggcg	ggatggacac	cctggaggag	gtgacttggg	180
ccaatgggag	cacagcgcta	ccccaccccc	tggcaccaaa	catcagtggt	cctcatcgct	240
gcctgctgct	gctctacgaa	gacattggca	cctccagggg	ccggtactgg	gacctcttgc	300
tgtcatccc	caatgtgctc	ttcctcatct	tcctgctctg	gaagcttcca	tctgctcggg	360
cgaagatccg	catcacctcc	agccccattt	ttatcacctt	ctacatcctg	gtgtttgtgg	420
tggcgctggg	gggcattgcc	cgggccgtgg	tatccatgac	ggtgagcacc	tcgaacgctg	480
caactgttgc	tgataagatc	ctgtgggaga	tcacccgctt	cttcctgctg	gccatcgagc	540
tgagtgtgat	catcctgggc	ctggcccttt	gcacgctggg	agagtaagtc	cagcatcaag	600
cgkgtgctgg	ccatcaccac	agtgtgtgct	ctggccctact	ctgtcaccca	ggggaccctg	660
gagatcctgt	accctgatgc	ccatctctca	gctgaggact	ttaatatcta	tggccatggg	720
ggccgccagt	tctggctggg	cagctcctgc	ttcttcttcc	tgggtctactc	tctgggtggc	780
atccttccca	agaccccgct	gaaggagcgc	atctccctgc	cttctcggag	gagcttctac	840
gtgtatgcgg	gcacctctgg	actgctcaac	ctactgcagg	ggctggggag	tgtgctgctg	900
tgcttcgaca	tcacgagggg	gctctgctgt	gtagatgcc	caaccttcct	gtacttcagc	960
ttcttcgctc	cgctcatcta	cgtggctttc	ctccggggct	tcttcggctc	ggagcccaag	1020
atcctcttct	cctacaaatg	ccaagtggac	gagacagagg	agccagatgt	acacctaccc	1080
cagccctacg	ctgtggcccg	gcgggagggg	ctggaggctg	caggggctgc	tggggcctca	1140
gctgccagct	actcgagcac	gcagttcgac	tctgccggcg	gggtggccta	cctggatgac	1200
atcgcttcca	tgccctgcca	cactggcagc	atcaacagca	cagacagcga	gcgctggaag	1260
gccatcaatg	cctgagggca	gctgccaggg	cctgtggagg	acaggccaga	gaggaggcca	1320
gcaggcccag	agtccccagg	ggaggaggac	caggtcaagg	gacgttctgt	gggcagtagc	1380
cctgtgtggc	cctgttccca	ccatgagtct	ggaggcccca	cctccctggg	gctcccaatc	1440
ccctttgcca	tctctgctct	cactggggag	cctcctcccc	ttccacctg	ctctcatact	1500
gctcagtgc	atggcccagg	ctttccttcc	agggccatgc	ttggcaagg	tggctgagg	1560
cacctctctt	ctctgcaccc	ttggcacgag	ggcagggctg	gctctcccaa	tgctccatc	1620
ccatcccat	ggtgctttgg	cctcctcaaa	gcacccacca	tgggtggatg	actgaagtgt	1680
gtatatattt	ttgatctatt	ttttaataaa	aaggaaaagg	agcaaaaaaa	aaaaaaaaaa	1740
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	ggcgggccgn	tctagaggat	1800
ccctcgaggg	gcccagcctt	acgcgtgcat	gcgacgtcat	aagctctctc	cctatagnga	1860
gncgtattat	aagctaggca	ctggccgctg	ttttacaacg	tcgngactgg	ganatctgg	1920
acttgggaac	tttgggaagg	aaccttactt	ntgggggggg	acataaattg	gacaaactac	1980
ctacngagat	ttaaaagctt					2000

<210> 289
 <211> 2709
 <212> DNA
 <213> Homo sapiens

<400> 289

ccacgcgtcc	gcgcgtcctg	tcccggcgcc	ttccgcgcac	cggccaccgc	cagtctccga	60
gccccgtgac	ctgcaggtcc	tccggccgcg	actccgggcc	ggccctgcgt	ggtggctgtc	120
ggggggcgcg	cggggaagca	gcggaacttg	cgggtgtgagg	ggccggcggg	gcccggagcg	180
gtccccggcc	cgggaaactt	ggaccgagac	caggccggcg	accaccaggg	gcctgaggat	240
gaagccaagt	ctgctgtgcc	ggccccgtgc	ctgcttcctt	atgctgctgc	cctggcctct	300

09950082-091201

```

cgccaccctg acatcaacaa cccttttgga gtgcccacct ggggaggagc cggacctgga 360
cccagggcag ggcacattat gcaggccctg ccccccaggc accttctcag ctgcatgggg 420
ctccagccca tgccagcccc atgcccgttg cagccttttg aggaggctgg agggccaggt 480
gggcatggca actcgagata cactctgttg agactgctgg cctgggtggt ttgggccttg 540
gggggttccc cgcgttccat gtcaaccatg ttcttgggca cctctgggta ctcatggctg 600
tgatgagtg gggcggcggg cccgacgttg cgtggagtgg cagcaggggc cagcagcgtg 660
ggtgagacac ggcagcctgg gaacggcacc cgggcaggtg gccagaaca gccgcccagt 720
acgcggtcat cgccatcgtc cctgtcttct gcctcatggg gctgttgggc atcctgggtg 780
gcaacctcct caagcggaag ggctaccact gcacggcgca caaagagtcg ggcccggccc 840
tggagtggag gcagtggaa caaccctgcc taccggactg aggatgccaa tgaggacacc 900
attgggggtcc tgggtgcgctt gatcacagaa aaaagagaat gctgcggccc tggagagctg 960
ctgaaagaat acacagcaaa cagctggtgc agacgagcca caggcctgtg tccaagctgc 1020
cgccagcgcc cccgaacgtg ccacacatct gcccgaccg ccaccatctc cacaccgtgc 1080
agggcctggc ctgcgtctct ggcccctgct cctcccgctg tagccagaag aagtggcccg 1140
agggtgctgct gtcccctgag gctgtagccg ccactactcc tgttcccagc cttctgccta 1200
acccgaccag ggttcccagg gccggggcca aggcaggcgt caggggcgaga tcaccatctt 1260
gtctgtgggc aggttccgcg tggctcgaat tcctgagcag cggacaagtt caatggtgtc 1320
tgaggtgaag accatcacgg aggcgtggcc ctctgtgggt gatctccctg actccccaca 1380
gcctggcctc ccccctgagc agcaggccct gctaggaagt ggcggaagcc gtacaaagtg 1440
gctgaagccc ccagcagaga acaaggccga ggagaaccgc tatgtggtcc ggctaagtga 1500
gagcaacctg gtcatctgag gggcggtcta gtctaaggac actgcccggc tgcctggga 1560
ggttccgaag gcttccctga ggaggtggag ctgcagctgg gactgtgagg accgagaagc 1620
aatggcccag cagacgagac agcacaagacc aaggcctgga ggtgggagcg tctgcccag 1680
tgaggaggca ggtggccggc gggcactgtg tacaggagca ggctgagccc cgcccctggc 1740
cctgtgcca tgttgcctcc ctgaaggatg ccccgacccc cgtgcctgcc ctggctggat 1800
cctaggagcc cacgggattc tctgtatcat cagaggctgg gcttggcaga ggggaggggc 1860
ctgtgcccgt caccctggc cccattcctt ggtaattagc cacacccttg cctctgtaca 1920
gggcctaga gcagatgtgc gtcccctcc tcttccagca ggtctataaa ggggaagggg 1980
agcagaaagt cctgggctag gagagtgagt ccctgggttc taatcttggg cacatctgtg 2040
gccatcgctg ggtccatttt tctgactgtg aagtaaggag agacgtctca gtaccaggg 2100
cctcttcagc tcttctaggg ttctgggctg ggttgtggg gactggggag ctgggctcta 2160
ccatccctcc attagtagct ttatccagcc ccgtttttgc tgctttcagg cctctgcct 2220
caaggccccc atggggctgt ccatccatgg ctctgcctac ggaaggggct taatgcatgt 2280
gcctgcctc cccagctgt ttttaaatga actgaaaaaa tagacttgat cccggcagga 2340
ctgtgataca gagccctagc ctgcccagcc agccccaaga tctcaggagc tttagggaga 2400
agacttggtg gggctggagc acaccttggg cctcagtggg ttctgtgtcc ctgtggtgcc 2460
agtgcctctg ggcagtgcag gcggctgcc ggcccagccc tgacttccac tctggctcag 2520
caacctgggt atttatgtgg ggccgtgcag gcattggccc actgcctgtc catcctgttt 2580
ctcttattta ttgaaactca ccattgccct atccttgtgt ctccaccccc ttccatgtgt 2640
tgaataataa aaggtgggaa agtgcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2700
aaaaaaaaa

```

<210> 290

<211> 2556

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1663)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2553)

<223> n equals a,t,g, or c

<400> 290

```

tcgaccacag cgtccgcggg gctgcagccg gcgcgtttct ccgggctaca gccggcgccg 60
ccgcccgtca gtccgcggcc cggcgccatg gcgggctgcg cggcgcgrrc tccgcccggc 120
tctgaggcgc gtctcagcct cgccaccttc ctgctgggag cctcggtgct cgcgctgccg 180

```


tatgtttact	agacatcaaa	gtaaaggagc	agtcttttga	aaatctaata	aaggggaagga	600
agatctatga	acctccacgg	tatatgagt	taaaccaagc	agcccagcag	cttctggaga	660
ttgttcaaaa	tcaaagaata	cgaggagaag	aaccagcagt	taccgaggag	acactttgtg	720
ttggcttagc	caggggttga	gccgacgacc	agaaaattgc	agcaggcact	ttaaggcaaa	780
tgtgcactgt	ggacttggga	gaaccattgc	attccttgat	catcacagga	ggcagcatac	840
atccaatgga	gatggagatg	ctaagtctgt	tttccatacc	agaaaatagc	tcagaatctc	900
aaagcatcaa	tggactttga	acatagatat	ttaccattgt	ctgatgtaaa	tttcagccat	960
atatggattg	atatggtttg	gatgtatccc	cacccaagtc	tcattcttgn	attttaatcc	1020
tcataattcc	caggtgttgt	ggtaggtaat	tgaatcatgg	gggcagtttc	cctcatgcta	1080
ttctcatgat	agtgcgcttt	catgagatct	gatggtttta	taagtgcctg	gcatttcccc	1140
tactggctct	cattctcact	cttgccgccc	tgtgaagagg	tgccttccac	cgtgattggt	1200
aagtttctctg	aggccttccc	agccatgtgg	aactgtgagt	cgaaaattaa	acctctttta	1260
taattaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	agggcgggccg	1320
ctctagagga	tccaagctta	cgtacgggtg	c			1351

<210> 292

<211> 2596

<212> DNA

<213> Homo sapiens

<400> 292

aaaccctggg	gctccaccgc	ggtggcgggc	gctctagaac	tagtggtatc	cccgggctgc	60
aggaattcgg	cacgaggacc	gcgcggctgc	tccgctctcc	ccgctccaag	cgcgatctg	120
ggcaccgcgc	accagcatgg	acgctcgccg	cgtgccgcag	aaagatctca	gagtaaagaa	180
gaacttaaag	aaattcagat	atgtgaagtt	gatttccatg	gaaacctcgt	catcctctga	240
tgacagttgt	gacagctttg	cttctgataa	ttttgcaaac	acgaggctgc	agtcagttcg	300
ggaaggctgt	aggaccgcga	gccagtgcag	gcactctgga	cctctcaggg	tggcgatgaa	360
gtttccagcg	cggagtacca	ggggagcaac	caacaaaaaa	gcagagtcctc	gccagccctc	420
agagaattct	gtgactgatt	ccaactccga	ttcagaagat	gaaagtggaa	tgaatttttt	480
ggagaaaagg	gctttaaata	taaagcaaaa	caaagcaatg	cttgcaaaac	tcattgtctga	540
attagaaggc	ttccctggct	cgttcctgtg	aagacatccc	ctcccagggt	ccgactcaca	600
atcaaggaga	ccgcgaaggc	gtacattccc	gggtgttgct	tccaggagaa	accctgaacg	660
gagagctcgt	cctcttacca	ggtcaaggtc	ccggatcctc	gggtcccttg	acgctctacc	720
catggaggag	gaggaggaag	aggataagta	catgttggtg	agaaagagga	agaccgtgga	780
tggctacatg	aatgaagatg	acctgcccag	aagccgtcgc	tccagatcat	ccgtgaccct	840
tccgcatata	attcgcccag	tggagaagaa	tacagaggag	gagttggaga	acgtctgcag	900
caattctcga	gagaagatat	ataaccgttc	actgggctct	acttgctatc	aatgccgtca	960
gaagactatt	gataccaaaa	caaactgcag	aaaccagac	tgctggggcg	ttcgaggcca	1020
gttctgtggc	ccctgccttc	gaaaccgtta	tggatgaag	gtcagggatg	ctctgctgga	1080
tccgaactgg	cattgcccgc	cttgtcgagg	aatctgcaac	tgcagtttct	gccggcagcg	1140
agatggacgg	tgtgcgactg	gggtccttgt	gtatttagcc	aaatatcatg	gctttgggaa	1200
tgtgcatgcc	tacttgaaaa	gcctgaacag	gaatttgaaa	tgcaagcata	atatctggaa	1260
aatttgctgc	ctgccttcta	cttctcaaat	ctttcttgta	aaagtttcca	attttttcac	1320
tgaaacctga	gttaaaaaat	ttgatgatca	gcctgtttca	taagaaactc	caatcaagtt	1380
aatcttagca	gacatgtgtt	tctggagcat	cacagaaggt	atattgctag	ttacactttg	1440
ccctcctgca	gtttcttctc	tgtctccaac	ccccatctca	tagcatcccc	ctctattttc	1500
aatgctcctc	tccaaccgct	tagtttctga	atttctttta	aattacagtt	ttatgaaagc	1560
atattttatt	tacttgggtg	tgaatatagc	ctcataaaac	ctaagcactt	ggaaacacaa	1620
taatagtatt	aactaactag	atctattgaa	tttcagagaa	gagccttcta	acttgtttac	1680
acaaaaacga	gtatgattta	gcactcatac	tagttgaaat	ttttaataga	atcaaggcac	1740
aaaagtctta	aaaccatgtg	gaaaaattag	gtaattattg	cagattgatg	tctctcaatc	1800
ccatgtattg	cgcttatgtt	acaagttgtt	gtcacagttg	agacttaatt	cctcctaatt	1860
tcttctgccc	gaagggttaag	tgggtgcgtc	agcttacacg	atcataattc	aaaggttggt	1920
gggcaatgta	atacttaatt	aaaataatga	tggagagagc	atctggagat	tatgagtaag	1980
ctgatttgaa	ttttcagtat	aaaacttttag	tataattgta	gtttgcaaa	tttatttcag	2040
ttcacatgta	aggtattgca	aataaattct	tggacaattt	tgtatggaaa	cttgatatta	2100
aaaactagtc	tgtggttctt	tgcagtttct	tgtaaattta	taaaccaggc	acaaggttca	2160
agtttagatt	tttaagcactt	ttataacaat	gataagtgc	tttttgagaa	tgtacttttt	2220
agcagtttgt	taacctgaca	tctctgccag	tctagtctct	gggcaggttt	cctgtgtcag	2280
tattccccct	cctcttttga	ttaatcaagg	tatttggtag	aggtggaatc	taagtgtttg	2340
tatgtccaat	ttacttgcac	atgtaaacca	ttgctgtgcc	attcaatgtt	tgatgcataa	2400

ttggaccttg	aatcgataag	tgtaaataca	gcttttgatc	tgtaatgctt	ttatacaaaa	2460
gtttatttta	ataataaaat	gtttgttcta	acttgctgc	ttttttaaaa	ataatcttac	2520
tgtacttaat	tctaattttt	tcctcatatt	taaataaaa	gccatttcca	ccttttctaa	2580
aaaaaaaaa	aaaaaa					2596

<210> 293
 <211> 2288
 <212> DNA
 <213> Homo sapiens

<400> 293						
gcaaaggtga	ccagaagtca	gcagcttccc	agaagccccg	aagccggggc	atcctccact	60
cactcttctg	ctgtgtctgc	cgggatgatg	gggaggccct	gcctgctcac	agcggggcgc	120
ccctgcttgt	ggaggagaat	ggcgccatcc	ctacagaccc	cagtccaata	cctgctccct	180
gaggccaagg	cccaggactc	agacaagatc	tgctgtgtca	tcgacctgga	cgagaccctg	240
gtgcacagct	ccttcaagcc	agtgaacaac	gcggacttca	tcacccctgt	ggagattgat	300
ggggtggtcc	accaggtcta	cgtgttgaag	cgctctcatg	tggatgagtt	cctgcagcga	360
atgggcgagc	tctttgaatg	tgtgtctgtc	actgctagcc	tcgccaagta	cgcagaccca	420
gtagctgacc	tgctggacaa	atggggggcc	ttccggggcc	ggctgtttcg	agagtccctgc	480
gtcttccacc	gggggaacta	cgtgaaggac	ctgagccggt	tgggtcgaga	cctgcggcgg	540
gtgctcatcc	tggaacaattc	acctgectcc	tatgtcttcc	atccagacaa	tgctgtaccg	600
gtggcctcgt	ggtttgacaa	catgagtgac	acagagctcc	acgacctcct	ccccttcttc	660
gagcaactca	gccgtgtgga	cgacgtgtac	tcagtgtcca	ggcagccacg	gccagggagc	720
tagtgagggt	gatggggcca	ggacctgccc	ctgaccaatg	atacccacac	ctcctcccag	780
gaagactgcc	caggcctttg	ttaggaaaac	ccatgggccc	ccgccacact	cagtgccatg	840
gggaagcggg	cgtctccccc	accagcccca	ccaggcgggtg	taggggcagc	aggctgcact	900
gaggaccgtg	agctccaggc	cccgtgtcag	tgccctcaaa	cctcctcccc	tattctcagg	960
ggacctgggg	ggccctgcct	gctgtctccc	ttttctgtct	ctgtccatgc	tgccatgttt	1020
ctctgtctgc	aaattggggc	ccttggcccc	ttccggttct	gcttccctggg	ggcaggggttc	1080
ctgccttgga	ccccagctct	gggaacgggtg	gacatcaagt	gccttgcata	gagccccctc	1140
ttccccgcc	agctttccca	ggggcacagc	tctaggtcgg	gaggggagaa	ccagccccctc	1200
ccccctgccc	acctcctccc	ttgggactga	gaggggccct	accaaccttt	gcctctgcct	1260
tggagggagg	ggaggtctgt	taccactggg	gaaggcagca	ggattctgtc	cttcaggccc	1320
cacagtgcag	cttctccagg	gccgacagct	gagggtctgt	ccctgcatca	tccaagcaat	1380
gacctcagac	ttctgcctta	accagccccg	gggcttggct	ccccagctc	tgagcgtggg	1440
ggcataggca	ggacccccct	tgtggtgcca	tataaatatg	tacatgtgta	tatagatttt	1500
taggggaagg	agagagggaa	gggtcagggg	agagacaccc	ctcccttgcc	cctttccttg	1560
gccagaagt	tggggggagg	gagggaaagg	atttttacat	tttttaaact	gctattttct	1620
gaatggaaca	agctgggcca	aggggcccag	gccctgtcct	ctgtccctca	cacccctttg	1680
ctccgttcat	tcattcaaaa	aaacatttct	tgagcacctt	ctgtgcccag	catatgctag	1740
gccaccagc	taagtgtgtg	tgggggggtct	ctacgccagc	tcacagtgct	ctccttgccc	1800
atccttcacc	ggtgcctttg	ggggatctgt	aggaggtggg	accttctgtg	gggtttgggg	1860
atctccagga	agcccagcca	agctgtcccc	ttcccctgtg	ccaacccatc	tcctacagcc	1920
ccctgcctga	tcccctgctg	gctgggggca	gctcccagga	tatcctgcct	tccaactgtt	1980
tctgaagccc	ctcctcctaa	catggcgatt	ccggaggtca	aggccttggg	ctctccccag	2040
ggtctaacgg	ttaaggggac	ccacatacca	gtgccaaagg	ggatgtcaag	tggtgatgtc	2100
gttgtctccc	cctccccccag	agcgggtggg	cgggggggtga	atatggttgg	cctgcatcag	2160
tgggccttcc	catttaagtg	ccttctctgt	gactgagagc	cctagtgtga	tgagaactaa	2220
agagaaagcc	agacccttaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2280
aaaaattt						2288

<210> 294
 <211> 1224
 <212> DNA
 <213> Homo sapiens

<400> 294						
ggcacgagta	tacatccata	cacacacttg	aatattttgt	caaaagaatg	aaaacttctt	60
ataaccatgt	tttgaagatc	ttttatacct	catagaatct	ccccgtggct	cttgttttca	120
acaaatgcct	gtggattggg	taaggttcta	ctgaatctta	agtattattt	acagcagaga	180
tggggccagg	agtagaatat	tcactggaca	gatcccaagt	ctgtagtaga	aaacagcttg	240

ttcattatcc	tctgaatttc	ctttgccaga	agagttgtag	ggaagaaatg	gggtgggtcct	300
cccattgggc	taacttcttg	agtgtgaaggc	tttgggttctc	aactttgggt	atatgttgaa	360
gccactcttg	attcctaagt	ctaatacccca	gggtttctga	tttaattgggt	gtagggtgtg	420
gccaggacca	aataattgta	atgtgtagcc	aagattgaga	accactgcct	taggagatga	480
caacccccag	tctcagttaa	gaaattagca	ggcttatttt	gcttaactct	aggtaatata	540
cgtactgaga	aggctctggga	accatcccaa	tagtaatgag	gatccatagc	tccctgatct	600
ttgtttcaaa	ggctctattct	atacgaaaag	ataccagaga	tcctcagaga	aatagctgtt	660
tttaggactg	gagcagggaa	agaacaagat	gtgcctggat	atctctgtgc	agaaagcaaa	720
gaaataatca	gagattattg	tcagaagaac	ataaaagtct	gagggagtta	tgactgggtca	780
aatctgggat	tttttttttt	ttcccccgag	acagagcctg	gctctgtccc	tcaggctgga	840
gtgcagtggc	acaatctcag	ctcactgcag	cttggacctc	ctgggctcaa	gtgacccttc	900
cacctcagtc	tcccaaatag	ctgggactac	aggtgcggac	catcacctg	gctaattaaa	960
aaaaaatttt	tctttttttg	gagagatgag	gtctcattat	gttgcccagg	ctgatctgga	1020
actcttgggc	tcaagcaatc	ctaccatggt	ggcctcccaa	agtgcctggg	ttacaggtgt	1080
gagctaccac	gccaaatctg	ggaaaatctg	agaatcaaaa	taaggaatta	tagtcatgga	1140
ttataactca	ttgaacaaag	taggaatcct	ttaatctgta	ctcatacagg	taaataaatg	1200
aaaaaaaaaa	aaaaaaaaaa	aaaa				1224

<210> 295

<211> 2710

<212> DNA

<213> Homo sapiens

<400> 295

ggggagaaat	cagtgcacaga	ggtgttttgg	ttttattgtt	atgtgggttt	tcttttgtat	60
tttttttgtt	tgttttgttt	ttaaaccattc	aaaagcaatt	aaagatcaga	cataggagaa	120
accctgaata	gaaacaaaac	ttttgaatgc	tggattcaaa	aaaaaaaaaa	agttatctgg	180
acagcttctt	tgagactatt	taaaaactgg	tacaacaggt	ctctacaacg	ccaagatcta	240
actaagcttt	aaaagggtcaa	gaagttttat	ggctgacaaa	ggactcgcgc	aacgcagaag	300
gcctttccca	ccttaagctt	ccggggatct	gggaatttta	ccccattct	cttctgtttg	360
tctgattctc	atctctctgc	aagcaaggcg	tgaatacatt	ttgtttgggt	gttttgaggg	420
agagaggcgg	ggtggggggg	tgcaaatctg	ccagcagctc	ttacgtaagg	catgttttat	480
tggggagggc	tgagctttta	ttttctctc	tccagtgggg	ttggctttta	ttgtttcttg	540
tttgggtttg	gaatggaaat	atggatagca	gcataaagta	cttttatttt	gacaaaattc	600
atttttttca	acaatggaga	catagatttg	accacaata	acttctcccc	ctctcttttt	660
actctgctca	aaaagcatct	ctcctcccat	tacccaacct	tggtcataag	tgtgcctggc	720
tggtttgcag	atatttgttc	tgctttgtaa	aaattggcca	ttagtgcatt	tattgagatg	780
atctctaaag	agctatgccc	tgacctaccc	ctgattctat	gacattgggg	cccttctttt	840
gctgaaactg	ccttaagtaa	tggttttact	ccttgaaaga	gatttgacgg	aatccatttt	900
atgccaaagt	ctgccctgca	ctgtttctgc	aatatgtggg	gtatgctgtg	gtgatcttgc	960
tgggaatgat	tataagtggt	tgtgtgggtg	gggagtggtt	attacatgca	ttgctgaaga	1020
gtcatcctgg	tgttcctcat	tcctccacc	ttcccgtggg	catttttaatt	acggggcagt	1080
gtcacgcgaa	agggaggaaa	ctcaaagccg	aaagcaaaat	tccaggcctg	attctggcct	1140
ttgaggttcc	tggttcttga	agccaggcct	gacccgactc	tcagatgggg	tcagtcctct	1200
cgctttgcag	actgaccctg	gaaatctaca	aaatgcagat	tttcctgatt	tcctcttctc	1260
ttgcccagtt	tttttttttt	tttttttttt	taaagcctgg	attgtaacca	gattttcttt	1320
tttccccctt	ctcagctgta	gatatgatat	ctcctttcag	ggccccagct	taagggcaaa	1380
gtgagttaat	gtgtagacaa	aggcgaggga	caagagagag	ttaacatcta	gacagtggaa	1440
aaagccatgg	tgtgtgggtt	ctgggaacca	ccaacacttg	caggtttagc	tttttccag	1500
ggttgactac	aagaaagaaa	accatgtttt	tgcaagatta	aaatgtgggt	gagtgtgcct	1560
aaattaacca	tccccatttt	tatcatattt	ccaccatcac	ttcagggttt	taagagtcag	1620
tgctcacctg	ggcggagctg	gtagtacatt	ttgcttctta	gaaagctaag	tcctgggttc	1680
cgtctgattt	taggttccag	gaacttctct	agaacacccg	atcgagagg	gtaattttct	1740
ggagtttggt	ttgcagggat	agctgggagt	atggccaccc	tgctccacga	tgcggtaatg	1800
aatccagcag	aagtgggtgaa	gcagcgcttg	cagatgtaca	actcgagca	ccggtcagca	1860
atcagctgca	tccggacggg	gtggaggacc	gaggggttgg	gggccttcta	ccggagctac	1920
accacgcagc	tgaccatgaa	catccccctc	cagtccatcc	acttcatcac	ctatgagttc	1980
ctgcaggagc	aggtcaaccc	ccaccggacc	tacaacccgc	agtcacacat	catctcaggc	2040
gggtctggccg	ggccctctgc	cgcggccgcc	acgacccccc	tggacgtctg	taagaccctt	2100
ctgaacactc	aggagaacgt	ggccctctcg	ctggccaaca	tcagcggccg	gctgtcgggt	2160
atggccaatg	ccttccggac	ggtgtaccag	ctcaacggcc	tggccggcta	cttcaaaggc	2220

atccaggcgc	gtgtcatcta	ccagatgccc	tccaccgcca	tttcttggtc	tgtctatgag	2280
ttcttcaagt	acttttctac	caagcgccag	ctggaaaatc	gagctccata	ctaaaggaag	2340
ggatcataga	atcttttctt	aaagtcattc	tctgcctgca	tccagccccct	tgccctctcc	2400
tcacacgtag	atcatttttt	tttttgcagg	gtgctgccta	tgggccctct	gctccccaat	2460
gccttagaga	gaggagggga	cggcacggcc	gctcaccgga	aggctgtgtg	cggggacatc	2520
cgaggtggtg	gtggacagga	aggacttggg	aaggggagcg	agaaattgct	ttttctcttc	2580
ctccctgggc	agaatgtagc	ttttctgctt	cactgtggca	gcctcctccc	tggatcctta	2640
gatcccagag	gaggaagaa	aatttgcagt	gactgaaaac	agtaaaaaaa	aaaaaaaaaa	2700
aaaaaaaaaa						2710

<210> 296

<211> 489

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (477)

<223> n equals a,t,g, or c

<400> 296

cggcacgagc	ttcctcaaaa	gtatataaaa	tttgaaga	cctagaagtg	atctagtggg	60
atgaagacgc	tgagatacca	ttgaggttgg	ggaaactact	gggacgtgct	tacaggataa	120
actgcaaaac	aaaagcacaa	gttttgaatc	atggaatgac	atgccttatt	ctgaaaactt	180
aacgtttgta	gcgtacctta	taattcataa	gacatttaaa	aatgggtattg	aatcccaata	240
acctatgcgt	agggttggat	cttgtttgta	tcctgttttt	ttaatggaaa	atctgaggcc	300
tgaagatggg	aggccatgta	tatgcctgcc	ccgccgttga	gcctggctcc	tgctgttgga	360
gaaactttcc	cagtctgtag	agagaggatg	tggtcctggc	aagcctggct	cctgcctgat	420
tctgtatctt	ctggtaacac	acagccgtca	tttaaaaaaa	aaaagacaag	gtcttttccc	480
tcggacaga						489

<210> 297

<211> 2073

<212> DNA

<213> Homo sapiens

<400> 297

ggcacgaggt	gtgtctgtgt	atatgtatat	gtgtgtgtcc	ttgcacatgt	catgtggctg	60
tgcaagtgca	tgtgtgtgtg	catgcatgtg	tgtgtgtgtt	gtgtgtgggtg	ggaggcagcc	120
tggggctgtc	agaagagggc	agaaggtggg	atcaggccta	gctggacctg	aaccctgctt	180
gtgccagctg	ggtaactttg	aggcaagtca	tttaagttct	ttctgcctgt	ttccccattc	240
aaagaatgga	ccaaatatta	cttacgttgt	gaagatgaca	aatatgtgtg	taaaatccag	300
gcacacacga	tgtgcttagg	acacagcagt	tatgatattat	ttgtgtgttg	tctttgtgga	360
gtgggggggag	gatttgcagc	cttttaagga	cttgggaatt	tcaggctctg	acagagccag	420
tctggaaggc	ccatctgggtg	tggctgctct	gagggactgg	ggacattgctg	cccgtgttta	480
cagagaccca	tagtcagaca	tccatggggc	aggcacagag	gcaacacagc	agtccctgcc	540
gcagggcccc	cagtggacag	gcagaggcgc	agataataca	gtggctgtcc	caggggtccac	600
agctgggtgt	ggggggcttg	agggttagaa	ttggccggggc	cctatgcggg	gcatttgatt	660
ctagttcggt	ctatttttat	cttttttcac	agatcagggc	accgtgccct	ctgggctcgc	720
tgcgtcttcc	tgcttccag	ccccaatctc	ctcccccttc	ctacctccag	cgcattctgt	780
gtgagacgca	tggggacagg	tgtgtgtaca	ccctggggaa	tgtgtgggtg	gttttcattt	840
atctgtgtcc	atgtcgatca	agagcacatg	ctcatgctgc	ctgtcttagt	ctgttcagggt	900
tgtgataaca	aataacaaca	atcgggggtac	ttagaacaac	acacattcct	ttttcacagt	960
tcaggagggg	ggtaactcca	agatgagagt	ggcagcaggg	gcgggctctg	cagagggctg	1020
tcttccggga	tgcagcctgc	cgggtgtctc	actgtgtcct	cgcaggcaga	agttggcgtg	1080
ccgagccagt	gctctgctat	cagggcttgg	agcccaatta	tgagcactcc	tccttcattg	1140
cctagtccac	cccataaggc	cccacatcat	gataccatca	ctatggaatt	aggacatcaa	1200
caggtacatt	tgggggggat	aaatgcattc	agaccatggc	actggtttca	gttgtcatgt	1260
aagtcaccac	tcgtatatca	aggctaactc	atgaccttag	atctacatgg	ggtctgcctt	1320
ctacctcaca	gcagagatgg	acacccacac	caccatcttc	cccgtgtctc	accacctgca	1380
ccccaattac	ggacacctat	gcctctgtct	tccttgcgtc	tctcagcact	ctacagcgag	1440

tgacacacac	accttcatct	ttcttccatg	cttcatgttg	cagtggagag	gctggggatt	1500
gggaggaggt	gctgctgggg	tatggggagt	gagatctgtg	ccgcagtggg	gtggggattca	1560
ggagaaaacc	aggcagtgtc	ccaccagttc	acttgcttgt	aacacagaaa	cctcttcaat	1620
ggaaatggaa	ccctgtctag	aatgccagac	tctctgctga	ccattctctc	tggtcagaac	1680
tggatcactt	tatttgatgt	aaattgtatt	tgatttattt	ttttcttttt	taagagatga	1740
agtctcacta	tgctgcccag	gctgggtctc	aaactcctgg	ctcgagtggc	ccttcgcct	1800
cagcgtccca	aagtgtctgg	attacacgtg	tgagccacag	cactggccat	aaattgtatt	1860
tgattttttac	agctacctgt	atttagccat	gtgaaagtga	ttttccactt	atgtcagaat	1920
acaaagtttc	gtttagggat	aaattgtaaa	aaagaatata	ggcctgggtg	gtgggtcatg	1980
cttttaattc	ccatactcag	cttgagtacc	ggaaccaaga	ctagtcgagg	caacatagtg	2040
aacctcattt	ctttaaaaaa	aaaaaaaaaa	aaa			2073

<210> 298
 <211> 1442
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (126)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (148)
 <223> n equals a,t,g, or c

<400> 298						
aattcggcag	agctggggtt	cccctaggt	gtcccttcac	cctggcagac	ctccctgcgc	60
ccttccagcc	cctctagttc	ttcccaggc	tccagtccag	caccaccta	gtgtgggcat	120
ctgctncaca	gtctcctgcg	cgcgcacnca	acagaggtag	tctgtaccac	ctgggtggcat	180
cagctaggct	ttgggtgccct	ccttccaact	ccctgaaccc	cctccaactg	ttggggagac	240
aggaccagag	ctgttacctt	ccttggtgggt	gagcttctcc	ccccagact	cgtgagtttt	300
gaccgcaggt	cggacgccat	gacgtaacct	ttcttctcct	tgtccaccat	caacatggct	360
agaagaattt	ctttcttttg	gtcttcttgt	tttatttgca	tgtgcataat	ggtcagaaaa	420
gtggagagaa	tccagctctc	catttccgtc	taggaaaccc	gaaacacag	cagagtgagc	480
agagggaaaa	agactcctag	gaagccagct	ggcctcctgc	tggacctgca	cagccggttc	540
aaggtcaact	gaccagggaa	tgccaggatg	tggcagtgg	cacagtgaag	aggatgcac	600
ccctccacc	gagttccac	gacaggcccc	tactggact	ggacattctt	catttcagca	660
acgtctcag	tgacgatgt	tatcatcacc	ccaaagtca	agaaagtggg	ttcccaacca	720
cagatggagg	actgggctcc	tctgtccct	tctagcgctt	ccctcctgcc	ctgaactgga	780
gggaaacagg	tccatgtgtg	cattccacct	ttgacagcca	ccacagtaca	tcttaccagg	840
atggatcagc	acccccacct	gggtgtctca	gcctcagtcg	caggctgggc	tgctcacctg	900
ccttccctc	actgcagtct	ccatcccagc	ccctcctcca	cgggccctgg	ctgggatgta	960
actgcaggaa	atcaaaactt	ccctggacta	caacttcctg	tttggagggg	acagaaatca	1020
aggaaaccac	cacccttttg	gagctggaca	tgggggatct	caggtatcag	accactgagc	1080
aaccaccgc	caggctgcag	gctttcagag	gcccacctgg	gcccagcgtg	gcctgcccc	1140
gggtgggctc	ccagcgcaac	tgcaggcatc	ctctagtggg	gcctctggta	accctagcag	1200
atggtggtga	ccccctgag	atgagggaag	tggtgacctg	agactgagca	gcagcctatg	1260
ggctccgggt	caagtgtat	tcccagcgga	tgcccttccc	ctgcgccagt	ccctccttcc	1320
tgagtgtcca	gcccccaatg	caaacagcaa	ccccaggctc	tgaaactact	ttttttctta	1380
gaaaaagcaa	aacaaaacat	aaaacttggt	tctgattatg	aaaaaaaaaa	aaaaaaaaaa	1440
aa						1442

<210> 299
 <211> 1436
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE

09950032-091201

<222> (640)

<223> n equals a,t,g, or c

<400> 299

gagcagaggt	aattaatag	cagttacaat	gtggaagatt	ctggaaagta	gagttctgtt	60
gtctgaaatt	tagtctgaca	gaggaatatt	agcaagataa	atgtatttgg	accaagcact	120
cccagagagga	agggcatgct	caaattgttt	ctgtaaaaag	tctctggcgg	tgtttggctc	180
ccttctgcgt	ccttcatgaa	acagttctcc	ttgagtatta	cggttggcaa	gcatgtgggt	240
gggggagatg	tcacacgcac	ccgctccagc	tgtacaagca	agccactgcg	aggattagac	300
gcttgttagt	tatgaactta	ggtgtctggt	ctgtttcttt	gcctttcaaa	ggcacttcct	360
ggcagagagg	tacaatggtg	ctttgcagga	aacctgtgtc	ccacagcatc	tgttctgcag	420
cttggcagac	cgcagctggc	cctgagcatg	gcctactaat	tctctgggtc	agggtgtggct	480
gtggtgagat	ggatctcagc	caggtaaagac	cctctaattct	ctgtwttctt	tctcctgcca	540
tagatacact	gatgattgga	gggtatgaca	ggaattcttg	cctgcctttg	ggtcgtgagg	600
gaaacagaaa	cagcgtaatg	gctttttgga	gtgccaggan	caaaatcccc	agagttcatt	660
cttagaaaac	tatgaagctg	ttctttgaac	tccaactttt	tctcctatat	tcattcaggg	720
ctctttcctc	tacaaccccc	tcattcttgc	tgttgataga	tgccctcttc	ctactctcta	780
aatgtccaat	tttatcttcc	tttggaatgc	catcaaattc	ttcctccctt	ttctctgtacc	840
ccacctccaa	aaataatccc	aacacccacc	tcgtcagakt	gtccatttat	ttcctcaggg	900
ctaateccag	aaggagcata	caagttggtg	aactcatact	aatatgtgaa	tgattgttgc	960
ccttggatgg	ttagaaaatc	aaggtagttg	tccactgtag	aagattgttt	aaagccaagt	1020
gggttaagaat	attctatatc	cttccttttg	catatattat	ctcgttcate	cttgtgaagc	1080
agataatctc	accatctcaa	tgtacagaaa	aggaaactga	ggctcagaac	attttgagta	1140
gcctacttaa	atagtctagg	cagagattga	acccccacgt	ctctggcccc	aagaggctct	1200
gataattccc	tcacaactgc	tgccaaacag	cagataaaat	atatttggat	tcttctcacc	1260
tttaagaaaa	cctagtaagt	taatctctaa	aatcagcaa	tctgctcagg	ggatacaggg	1320
agaactagga	ctattgtccc	aatgtgttag	tcataattat	ctgcttacca	aatgaccatg	1380
tgttgaatcc	ctgaaaacca	tgggagaaat	acaaaaaaa	aaaaaaaaa	actcga	1436

<210> 300

<211> 728

<212> DNA

<213> Homo sapiens

<400> 300

ggcacgagag	acaccagtct	gcagtctgtg	agcttgggtg	ttatttgtac	ataatcggag	60
gtgcagaatc	ttggaattgt	ctgaacacag	tagaacgata	caatcctgaa	aataatacct	120
ggaactttaat	tgcacccatg	aatgtggcta	ggcagaggagc	tggagtggct	gttctttaatg	180
gaaaactgtt	tgtatgtggt	ggctttgatg	gttctcatgc	catcagttgt	gtggaaatgt	240
atgatccaac	tagaaatgaa	tgggaagatga	tgggaaatat	gacttcacca	aggagcaatg	300
ctgggattgc	aactgtaggg	aacaccatth	atgcagtggg	aggattcgat	ggcaatgaat	360
ttctgaatac	ggtggaagtc	tataaccttg	agtcaaatga	atggagcccc	tatacaaaga	420
ttttccagtt	ttacaaaatt	taagaccctc	tcaaactaac	aggcttagtg	atgtaattat	480
ggttagtaga	ggtacacttg	tgaataaaga	gggtgggtgg	gtatagatgt	tgctaacagc	540
aacacaaagc	ttttgcatat	tgcatactat	taaacatgct	gtacatactt	tttgggttta	600
tttggaagg	aatgcaaaga	tgaagggtctg	ttttgtgtac	ttttaagact	ttggttattt	660
tacttttttg	aaaagaataa	accaagaatt	gattgggcac	atcaaaaaa	aaaaaaaaa	720
aaaaaaaaa						728

<210> 301

<211> 915

<212> DNA

<213> Homo sapiens

<400> 301

ggcacgagt	tacacatttt	atttcctttt	catgtcttgt	tgcactagct	agaactttca	60
gtattgaaag	tagtaaaaga	agccatgctt	gccttgggtcc	tttgtcttag	tgggaaagct	120
tccagtttct	caccaacatg	atggttagctg	tagtttcttt	gtagatgttc	tttaagcagt	180
tgaggaagtt	cctcttttatt	ttcagtcctt	ggagagtttt	tattttttatc	ccatacttca	240
tttcaaaatg	ctgagaggtt	tctttgttgt	tttgttttgt	ttgatcatga	atgggtgttg	300
gattttgtca	catgctcgtt	cagcatctat	tggtagatgc	atgtgatatt	tcttttagtct	360

gttgatgcga	tggattgcat	taattgattt	ttcaaatatt	gagtctgcct	tggttgtggt	420
atataattct	ttttattaaa	ttgttgcat	ccgtttgcta	atatttttag	gattttttaca	480
tctttattta	tgacagatac	tttaatatcc	ataggatttg	cagtgatgcc	tgtcttttca	540
tttcttactt	tttttttttg	agatggaatc	tggagcccag	gctggagtgc	tgtggcgaaa	600
tctcggtcca	ctgcaacctc	cgccttccgg	ttcaagtgat	tctcttgcc	cagcttccca	660
agtagctgga	actacagggtg	tgtgccacta	cgcccagcta	ttttttattc	ttttttgaga	720
cagagtctcg	ctctgtctcc	caggctggag	tgtgtggtgg	caatctcggc	tactgcaac	780
ctccacctcc	caggttccag	cgattctcct	gcctcagcct	cccagtagc	tgggactaca	840
agcgccacc	accacgccc	gctaattttt	gtattttcag	tagagacggg	gtttcaccat	900
attggcctgg	atggt					915

<210> 302

<211> 1156

<212> DNA

<213> Homo sapiens

<400> 302

gaattcggca	cgagtgcggt	ccaagcccat	ggggccacct	cttaattcca	gcttccttgc	60
ctactatgac	agggaaagaa	acatggcaac	atgcgcacag	ctcttaaggc	ttgtrctgga	120
ggcggaacac	atcgccccctg	cagcctggca	ctggccatgg	gacatgggag	gtagggggag	180
gcgtgttcca	gcctatgttg	gccggtgggc	aggtgctcag	actcagcaag	ctccttgggg	240
tcattcatca	ccccccacc	cattcatcct	caaacacctg	cagagggtt	cctctgccag	300
gctgtcaggc	gccaaaggca	cagaaatgag	aactgacagt	ccactggggg	agacggtctt	360
cgcatggtct	tgcctcaggt	gtaaggcaca	agagtgggtg	aggggggcct	aaccaggccc	420
ccakggtaaa	tacsggttgg	ggggctgtct	gggggaatgg	ggaagaagag	cattctgggc	480
tgggggctcc	acaggctcaa	cacagctgga	gtkarccaca	acagtgaatc	acgagaaatg	540
aggctggaaa	ggccagtggg	aaccatggtc	ctggagggtg	gcattgggtg	gggaktcttg	600
cttcaagctg	agggcaggat	tttcagcaca	gatgactgtg	ttctgaaaga	tccctgtggg	660
aagaktgagg	agaggggtga	gcagcagcca	agactggagg	caggaggacc	aagcagcggg	720
ttgtggccac	gtttcagggtc	tggagtcacc	caggagagat	tctgatcata	tgggtctatg	780
gtgtgacgtg	ggaggtggaa	ggttccagga	caactcccag	gtcctcaaaa	ataacaactt	840
tttttttttt	ttgagacaga	gtctcgtgtg	gtcaccacaga	ctggagtgtg	gtggcgcgat	900
cttagctcac	tgcaagctcc	gcctcccagg	ttcacgccat	tctcctgcct	cagcctctgg	960
agtagctggg	actacagggtg	cccgccacca	cgcccagata	atTTTTTTTT	TTTTTgtatt	1020
ttttagtaga	gatgggggtt	caccgtgtta	gccaggatgg	tctcaatctc	ctgaccttgt	1080
gatccaccgc	cctcagcctc	ccaaagtgtc	gggattacag	gcgagagcca	ccgcgcctgg	1140
cccaaaatcg	gcacga					1156

<210> 303

<211> 636

<212> DNA

<213> Homo sapiens

<400> 303

ggcacgagta	gcatagtgcc	tgacatatag	cagtttctta	ataaatgaag	tcattggtct	60
attactatta	ttgctactat	tgtgcaataa	taatagacaa	aagcaacgta	gaggtgaaag	120
tgcagacgcc	tggcctttgc	cctgggggtt	cccctctgct	gaggaatctg	tggctgctca	180
gctttaaggg	tgcagggagg	tggccacatt	cctcaggccc	cagccctggc	ctcaggcatg	240
aggcaacaag	gaaagcaggt	ttaccttcag	ggcaatcctt	gggaaaagaa	taatttttagg	300
gacaactaga	aggctccatg	gtctctcaaa	tatctctcct	aaggcctgga	tgctgcctaa	360
aactcatttc	agggtagcca	caccactcat	cctgctagga	cagtaagaaa	gctcaaatac	420
gccaataccc	aggaaaggg	acacagaatg	tgagtatagt	tcaggcaaac	agcataaaat	480
gatatgagat	cttaagagct	gtgacactag	agacttttct	cttttttaaaa	atTTTTTTTat	540
ttccataggt	ttttggggaa	caggtgggtg	ttgtgggtgt	tggttacatg	agtaggttct	600
ttagtgggtga	tttgtgagac	tgtggtgcgc	ccatca			636

<210> 304

<211> 1045

<212> DNA

<213> Homo sapiens

T02T60-2305563

<220>
 <221> SITE
 <222> (607)
 <223> n equals a,t,g, or c

<400> 304
 ggcagagcct gaacacatgc atgaccatct ccatctccgg cactgacccc agctgcaggt 60
 gagctgcgtc cgtgtgaggg cactcagccc ggtgagaaca gggagggccc acgagaggggt 120
 cccaagaagg cagggccctg atgcagggaa acagtcagag atggagagac aggaaagaca 180
 tggaccgggg taagcgccac tgcctgcccc agtgtgagtg cctgctgcct tggtttacct 240
 atctggattg tgggcaagtc aaagagagct tggcgcctgc ccaccccacc tgactcctcc 300
 aggytcaagc ccaggccaca tgaggcctgt cccacccgtt ctcccatggc acagaccgca 360
 cccccaccat cccacaaagt ctgaatgaga tgcgctctct cttctttcta ccgtgacgtg 420
 gctgttcctt cccctgcacc tgtgtctcgg gtaaccccac gtctctctca cgggccagac 480
 tgggtgtcac caacctggag tggccccccac aaaccccagg ctgggtcagg gacctccatg 540
 gagctcccgc akccccctcaa gtgccccaaa cagggctgtg tttgctggca gtgtgagact 600
 gaakgangtc gcccttttgc aggccaagaa tccccctctt ggagatggca ggccagggcc 660
 cctktcgcga gmatccctga tcagcacggg gctggcccac gaggctgggg ttctgcccac 720
 tcccagytct gcacctgcat ctctgagcct cagtttcctc acctgtggga tggggcaatg 780
 gcgtccgccc ctcccaccca cccccaccgc agcccacctg ctgccactta cccagcaggc 840
 tctgcgcgtc ctctttcttc cgggccttct gcttggcctc cagctgtacc acagacaggg 900
 atggaccacac cgtggggctg gggagggcgc tggcggcgaa gcgtgccakc aggcccakcc 960
 cactctcctc caggcccggt gacagggccc gctcccgggc accagcctg tagccaccac 1020
 cgctggcctc gtctctctcc tcgta 1045

<210> 305
 <211> 1425
 <212> DNA
 <213> Homo sapiens

<400> 305
 gaattcggca cgagctgtac caaggcttca gagtgcagc ggggacatct ggatagggtta 60
 gccagggcca cagagagaag agctgcttac acctgaattg tttcacccctt ttcaagaaca 120
 ggggtgtcct tctccccatc tggatccttg ggctagatct ctgccgaggg gctccgtcaa 180
 gtcccgcaag gctagagaag ggagccccac atcatttcca ctttcaaaga gggaagatgc 240
 tcgtcattca aattacttct gttgatttcc atggtatccc cctgtccgtc ccacaatctc 300
 ttaccaggcg tcaatgcaca tgcaggggat ggaaaagagga tgagccgatg agcagacttt 360
 gcattaatca aggagaaaga aaaagcagat ggaaggaggt aggtagatgg agaaagcaac 420
 agtcctcttt agcccttgat gacggccctg aaggcctgtc tcttttagtg actcctcttt 480
 gggctcctct cccctacctc tcagtacta ggttcctcat attaatccc tgctgtgagt 540
 ttggctcctt gtgctgggca attcagtcac cctcagaaaag agcaaagtgt gtcttggat 600
 taaggtgcag gtggggaaaa agagggactc agctagacac gaagaaaggc tctcttccca 660
 gtctaagccc ttttaccgta aggggcattt tatcaagaca gccacccaac tccccatccc 720
 atctcccctc cttttagtaa acagcatttg actcaccaag cttttctctc cttttccgtg 780
 tgtcttgctt agtttctgga ttgagagaat ttctatcctt gctccctcga actctaaaag 840
 agcttctttt gaaaactggg gagtatcagg cctacctcta catgtgcaac agtgccagga 900
 ttcaaaggaa aagctcattc cagcctctgc ctcttgggag atggttcaga gtgccacata 960
 gggactgaaa gaggggtgtc gaatccttca ggaatgcttt aagtgcatt gttgaaaaga 1020
 gataaagaaa aggaaaacaa tgggaattggg tttctaaggc ccctggaaat atcctggggg 1080
 tctaattgag aaagaaaata agaggaaatt tgaagactca cttcttcctt catctgaatc 1140
 cactcagatg gcaactgatc tctgtcccaa ggaccctcta cccacccaa ttcataatca 1200
 tctcagatta gaaaaggcag aattccttcc cattctcaaa tcagcatttg ggttaggggc 1260
 ccctaagtta cgtgagcatg ttagaaatgt gaccccaggc ctcaagagag aggctctgcc 1320
 acatgagagg agataggaat catgactgaa aggggattag cacagaacag agaaaactga 1380
 tttgatagac aaatcaaata gaaaaaaaaa aaaaaaaact cgtag 1425

<210> 306
 <211> 1002
 <212> DNA
 <213> Homo sapiens

0950082 - 091201

<400> 306

ggcacgagggc	caacatggaa	gccacagggg	ctctcgtgcc	ctgatctggg	aagtggcagg	60
ccgccaccaa	cactgctgct	gttgttggtc	atgctaagtc	ttggcaagcc	actgggtcgc	120
acgtagggca	tgtctccatt	caggccagcc	gcatttcgag	ccacacgtgg	ttcgtggcaa	180
ctgttggaca	gcacagatgt	agggcatcaa	aagcctatga	ccgtatgcaa	cctgggtgctt	240
ctgagatgct	cacgtgggtc	atgggtagaa	gttgttcacc	tgaggtcttg	gctacctggc	300
attagcccac	acacagatat	tagtgtgccc	acctagtgtg	cagagtagct	taggggtgca	360
tccctctgtt	tctgccctag	ctgataattc	tcttgaccac	aggatcccag	tttcccttcc	420
tttatatgta	agacactttg	ttcagtgtct	ttatttcata	atcactgtcg	agaaatggag	480
gtaaagtagt	atcagttgtc	tgtagactta	gtggcagatt	gtgggggagg	ctgcatccca	540
aagctgggct	ggccctggag	gacagggctc	gggacagctc	catgtcccct	ctcatgggtg	600
ccaaaccatt	ctgtgagtgc	ctgtgcttca	aaggtgagcc	cggagagctc	tgtactcggc	660
ccctctgggc	cttgagggaa	cgggggctgg	gaggtttctg	gctggaccct	gaggggtgct	720
ttgcgggctc	tgggtctttg	gacttggcac	cgttgccttg	gcatttggtg	gcttgggagt	780
tggtgtgctg	gctttttccc	agatgcatgg	gcctgcta	gtcagtgttt	gacaaaccaa	840
ggagaggaca	ctttcctgag	ctcttgaagt	ccatgcttta	tcgtttttgc	cttcagattt	900
cagagcgacc	tagcagccgt	gtgtaacaaa	cacgtcactt	gtccctgtgg	agattggccc	960
accagcctcc	actggcacc	tgtccacttt	aacaagcaca	ct		1002

<210> 307

<211> 1103

<212> DNA

<213> Homo sapiens

<400> 307

ggcacgagcgc	gcacgagtgc	caatacaact	gctgtcgccc	tcaatgcgcc	agcccaccct	60
gcaaggctcc	taccacctgg	acccgcagta	gccctcctac	tgctccgggg	gagctgcagt	120
ctctgtttgct	gccaccaacc	gcataaggcg	agctgcaaag	ccatgccatc	tgcaggctcc	180
aatgtaccat	agatgactcc	tcctcttcc	cctcctccag	cctggcttgg	agcagctaga	240
tgggcaaagc	tagaaaagcc	taaaacggga	tgcaggaggt	ggtagcatta	gagcctcacc	300
ttgtcacgct	ggccactggg	tggcagggac	cagtttcagc	aaaggcactc	acaccaccc	360
tccaaagtcc	agcctctcct	tctggcaaaa	gctggccagg	aactggggcc	caggggtgagt	420
gtgtgtgcct	ttgctgaaac	cagccctagg	tcaggctctg	ctggacagaa	attgctgggt	480
ccaccagggc	tgcactcctc	agggagcagg	agtaggagaa	actcaggccc	agccagccct	540
gccccaccaa	gttctgggtc	ccgttcctga	tgcctccacc	cacagtgcct	tatcccccca	600
ccccaccac	agtggtgccc	actactccct	gccagtagt	cccaggttgt	ctctgcaaca	660
cagagcatga	gagcatgggc	cagggaacca	cgggtgggtgt	gggggcccctg	tcataactcaa	720
gattgtgcaa	ggaggaggag	atcactctct	agagtctgga	attggggaag	aggagaacgg	780
tcccttccct	ggagaccacc	tgaaggagga	aggaggccac	tgctgtcact	gccacctccg	840
cagcctgcca	acgccactag	cagtgtagcc	cctgatagca	cccctaacct	gctgcctgct	900
gcctgccacc	aacagtgtag	cccctggata	gcacacaaa	caaaccgcc	accagctgca	960
gggtgtgtaa	ccccaatatc	ccccccaaag	caccctccct	ccccagagc	aggcagtgtg	1020
gcacccaata	gtgcccacaa	cctgaccag	ccatgggtgt	tgctgcacta	gatagcacc	1080
gaaacctgcc	cccccaacc	cac				1103

<210> 308

<211> 1029

<212> DNA

<213> Homo sapiens

<400> 308

ctggagccac	catggagagt	gtgtcatggg	gctctctctt	aagtcaaatt	ctgcacatgg	60
catgtgacca	tcctcgtggg	ctcactgttg	gtgcctgagg	ttccttgaag	gtggtatcag	120
gatctcaagg	tcacctcctg	gacacagcat	ggatagaaag	gggcagggtt	catgccctgg	180
aggtggaaag	gcaagcagct	catttctgag	aagcagtgtg	gcctgggggg	ctcataacac	240
caatggcccc	acatgggtgc	tccaattaac	ctactgtgag	caccattacc	tccccacact	300
atccaggatg	tcagaaacct	aaggccacgg	agaaacttcc	cagcaatctt	tctttagaac	360
agaaggtggc	ctgagttaaa	catcggtgcc	agcatttctt	gggtggagat	gagaaggggc	420
tgcgaaatct	cagcccagaa	gggacaagca	tckgggccaa	gtttttacaa	tagcccytg	480
ggctcttgca	tcaagagcct	tgacaattgc	catggggcat	ccagcaagtc	tcctgatgtg	540
gatgagccct	ccttcccaca	atggaaccca	gattgggtgg	ggcaggggacc	caggagacag	600

aaaagagtcc	atgtaactag	aacccccctaa	acaagatgcc	ccacattgcc	aaggggggaa	660
catgtgagca	gagtggtagt	gcctgggcaa	tctcttccct	tgagcctcct	ctgtcatgca	720
ggaaactcat	tgaaggcaaa	gagcagccaa	ggggattgtc	cccagaccaa	agagaggaca	780
gatgagtggg	ggtaaccagg	ggctcttgagt	ccccagggcc	tgctgtgtca	ggactcccag	840
tctaccctcc	ccctgtgtgg	acgcacatc	ttgggtagta	gtcatcgggg	acaccggtta	900
ggttccgccc	tttgagggct	gcacccacca	tcttgatgta	ggcagagatg	gtcttctgca	960
tgtccgcagt	ataggggtca	tactcgaggg	ggggcccggg	acccaatcgc	cctgatagtg	1020
agtcgtatt						1029

<210> 309

<211> 585

<212> DNA

<213> Homo sapiens

<400> 309

ggcacgagga	gagaggtaac	tcttacatga	gcggacaggg	gaaggcagag	agggcagaaa	60
aggcctctga	gctcacgatt	ttgcttgggc	gtaggaaagt	taaacttatc	tagcgaattc	120
tctcgttttt	caaactcaga	tttaagcttt	ggtagagttg	attctttgaa	actgccctg	180
caaattggctc	ccgctccctg	ctccgcctcc	ccacgtcctg	cggggggacg	ggacggtggc	240
gggtgctcctg	agctgtcctt	cttggttatc	gttcttgtct	gacctgtggc	atgggtgccgc	300
ccagtgcctc	ctttcccagg	cagcttccctg	gctttgggag	cccatatgga	gtcaggcttc	360
tcaccgagcc	cacctgcccc	ccttggtggc	agctgtccca	ctgagcccat	cctttcccag	420
ccctccagc	ctctgagact	tgagccctag	tttaagctctc	agataatttc	tgccatcctt	480
tctgtatccg	tgggtcacac	acaaattcca	ctacagctgt	aaggaaaagt	cagggctgat	540
ccaagacctt	cgttcctcac	tcttcaaaga	agcctccatg	gttat		585

<210> 310

<211> 541

<212> DNA

<213> Homo sapiens

<400> 310

ggcacgagtt	gttgacccta	caactaatcc	tctttctcag	ctgcaactgg	ctgtcttgat	60
ttgctgtgtg	catcggttaa	tggacaaact	ggttgcacaa	actcctgccc	atggctcctg	120
tgaccacagc	aacttctcca	tcctcgtatc	atctcccat	gatcctgctc	tttttgcccc	180
atgttgctgc	tctttttgct	caaccttctc	cctgttcctc	aggcactccc	agctctttcc	240
tggccttggg	tctttgtgat	agccattcct	cttctagggg	gcacggttct	cccagatctt	300
tgcaaggcag	gctccctcct	ttccttctct	tttgctctga	tgcccttgcc	tcagagctgc	360
cattgtgcca	ccccagtga	agcctaactt	ccttgtagcc	acgttcacac	agcaccacc	420
tttcattctc	tgcattggcat	gtcccgcatc	ctgttcttcc	tcttcattgg	gatttgagc	480
ctgggcgcgg	tggctcatgc	ctgtaatccc	agcactttgg	gaggctgagg	tgggaggatc	540
a						541

<210> 311

<211> 1195

<212> DNA

<213> Homo sapiens

<400> 311

ggcacgagcg	catgggcagg	gaaagtgttt	tattgttatg	gactaataat	ttagaggcta	60
gggaagggaac	ggccttgtgt	gctggcctcg	ttgtaacaat	ttttctcatg	tgtcttccag	120
cctgttcac	tgctcgcgtt	atctctaaaa	agtcctctca	cctgccctct	gctgtcctca	180
gatcccatcc	acggccctca	cctccctcat	ccttctctgt	aacctctgac	aattctggat	240
gacctggctc	ccgccatgca	ctttgggctt	gcccctgccc	tgtgagtagc	ctgacaaccc	300
tgcacacacc	cctgggggtg	tgcagtgcc	tgctcctcct	cctggcctcc	ctgccacca	360
gccaggcat	gaagctgaac	atcgagtggg	ccccaggaga	gaggctgagt	tggtatggcc	420
aggactctcc	cttgcccag	tgggaagggtg	cacctgcccc	cttgggagca	ggcctcagca	480
ccctcacca	gtttcagggt	gcccactctc	aacagcagct	aagtcagagc	tccgagggct	540
gtccccacc	caccttcagc	ctcccaggcc	tccccttgcc	cgcttggggc	ctggagacac	600
atgcttcagc	cacaggcaag	tctgtttccc	ttccatgggg	ttttctccac	accacagcag	660
tggtagctct	gggcttctct	ccctggcccc	tgccccaagg	agcccagatc	cagtgtggtg	720

cttcttagac	tgtggtctga	ggcctcctgc	ttatagaaca	ggcagattcc	cagacattgc	780
ctctccccta	accaaagttt	attgattctg	agtctctagg	gctgtggcct	atatttgc	840
ttttaacaat	ctccctcggg	actttttatg	cactgagatt	tgaggccagg	gttgttctag	900
gctgtaccgg	caggtggact	ggaggccaca	gagaagaggc	agagtgaaat	tgtgccgggc	960
ctggcttggg	gcacccacca	gcccccgaa	gacaagtctc	acccagagct	ctccggttaa	1020
gcctgccgag	agagaggcac	caggaggcaa	tctccacact	ctcagacacc	agccgtaccc	1080
aaagattgat	gatttcagac	accggcctcc	cggccacatc	ctcactgcct	cactcacgcg	1140
tcacaccata	gctcttggtt	tgatgtgttt	gtctcactgg	ttacacgtgt	gtccc	1195

<210> 312

<211> 1047

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> n equals a,t,g, or c

<400> 312

ggcanagact	caggaggctg	aagcgagagg	atcgcttgag	cccaggagtt	caaggctgca	60
gcaagctatg	attgcaccac	tgactccag	cctgggtgac	ggcaagaccc	tgactctaag	120
gaaacaaaaa	caaaaacaaa	agtgggtata	aatatgactg	caaaactgct	ctgagctgct	180
cctctctgcc	tatgcggtag	ccctgctctg	caggagcggg	cacagagcag	taatactggc	240
tctctaataa	agctgttttc	ttctgcctcc	ggtttgccct	tgaattcttt	cttgcacaaa	300
gccaagaacc	ctcctgaact	aagccccact	gtggggctta	cctgccctgc	atgaggtaag	360
tatcaactat	ggctcaaaaag	gcaggtcaaa	ggcagctttt	caagtatat	tgtgtcacag	420
aaactcccac	tgtaacatca	aaaaatgaat	gattttttca	attcccttta	ttagggtttc	480
tttccctgcc	ccccctcatt	ctccacttct	ttctcttctc	tccgtaggta	tatagttata	540
ctctcccctc	acacactcat	tttgtgtatg	ttcaaaaata	ttttggttat	cttttatattc	600
tggttaactgc	tttttcatcc	tgcatgagca	gccaagaaaa	gaattaattt	agactttctg	660
caatgtcagg	gcctctcatt	caattactct	ccttgtctct	tggaagctct	ggtaacttag	720
tttaatgacc	tctcacacct	tacatcctta	aaaaatgccc	cgtgtgtctc	ctggctcggg	780
cagtcttaat	tatgttgga	gctttaggtt	tccttattac	cagcactcca	ggacctcatc	840
cccaccctgt	ccccatcttc	atcttcaccc	agagcttccc	atctcccccac	ctcccttatac	900
gccaattttct	gtctgcactt	tatccacgat	attcccattgt	tttctgctct	tactagaaac	960
attatttttac	ccagcactgc	atttttaaac	tgaaagaaga	tggtgattat	tatgccctta	1020
tcgaaatcca	ttacttgaaa	agctcga				1047

<210> 313

<211> 1246

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (746)

<223> n equals a,t,g, or c

<400> 313

ggcacgaggg	ccaccaggca	catctgctcc	actgagctgg	tgcagtgcac	tgccctgtcc	60
agcaggtggg	ggtactccag	gtccctctgtc	agccgctgga	gcatggacag	gggctcattg	120
aagttcacct	gtgggtggac	aggtgggtgg	tcaggctggg	caccagcccg	gcttggcatg	180
gtgcccttgc	ttttctcgga	tgttcaggga	catccctgst	cagacagcac	cttcacagtg	240
aggctcctca	gatggccctg	tccaacagtg	tggcccccaa	gccatcacct	ccctggcccc	300
tcctgggctg	ttttctccac	agcccttccc	actttctggt	ctgctgcac	ctacacactt	360
ttatcatgtt	cactgttgct	ctcctctgct	cggatggaca	cccamcaagg	ccagggggtt	420
tgccctggccc	actgctgtat	cttgagtgc	gaatcttagg	aagcagtgc	tgaatgggca	480
catgagtctg	tgggtggagg	aagtgggtct	tccccatgtt	gcgagctgtg	atggggcccg	540
gcacaggatg	ggttaggccc	aakgccccta	tcycggtgtc	acatakggca	gggtcactct	600
cccaccatg	atgccatcgg	gtacgagtct	cagcttcctc	gtgttatctt	gctccatcct	660

cccagacact	gaagaggacg	ctgtgtttct	ccccacccta	cacatgtgga	cacagaggct	720
ggagatgtga	aggaacttgk	tctgntcac	acagcagaac	cktctggcct	agtggagatg	780
ccatgtagcc	aggtggcatg	aggatccaag	ctctgagcct	gcatttcctg	gggatggcac	840
cagggatggc	tgccagctga	aggagggccc	acccctccac	acacagcccc	atcytgccac	900
tccccatcta	cagatcggka	cagctgggac	atggtaagggt	cctgtgagat	ccagagggtgc	960
tctggggctc	cccaggttgc	tgatccatgc	agagcttctc	cctggctcct	cctgtcagag	1020
cccaaagatc	cctgtacttt	ggaagattgg	gcaatgccta	tgtgcacgat	tagataatta	1080
gttacatgct	cctcaggtgc	cgtaagaaa	atgacactcc	aaggctgtgt	gtacttcaca	1140
caggccatta	ctgctcatcc	atgcacagga	aagcagcccc	agaggacctg	tcggggctgc	1200
cctgcccag	ccacccaccg	aaaaaaaaa	aaaaaaaaa	actcga		1246

<210> 314

<211> 1048

<212> DNA

<213> Homo sapiens

<400> 314

tgcaggaatt	cggcacgagc	caccacccca	gcccattatc	tctattgatc	ctcactccaa	60
ccttgcaaaa	taggtagcgt	attccagtgg	agaaactgag	gcacaaagag	gtgaaagacc	120
tttctgtca	cagttaggaa	agtggcagaa	gccgtatttg	aacccagca	ggtctccctc	180
tgaagtccac	acacgtcagc	gcctctgtgt	tgtctctttg	ccagcacagg	gctccctgga	240
gcccagagat	gggggtgggtg	acttgaaggg	gttggcaagc	ctgggctcct	ccagcgaaaa	300
ttcccttggc	cctgggcatt	cctaagcgag	aagaggctca	atcctatttt	cttctcctaa	360
ttggatgcct	tttatctctc	cttcctaatt	gaagtctggg	cattgctggg	tgccatggca	420
gcagccaaag	cgctcatctc	actgtggcct	gtctctgcct	gcggccaatg	ggaaacctcc	480
tttcccatat	acgggtggga	catggagtgt	caggctgtcg	tattctgggtg	gctggaggag	540
gagaggaagt	gagatgggag	gaaaaaggcc	tgtcctctcc	cacgcagaga	ctccggacag	600
caggatgtgt	ggaatcccca	gtctgttttc	agccaggcag	caacagcatc	tgtactgagt	660
tgagtctatg	tgtctaccag	tgggctaaga	acttcatgtg	cagtatctca	tttaattcttc	720
gtgatggccc	caggaagata	agggatcaag	gccagaaaag	gctaagtaag	ctgccaggtc	780
atccaaggag	aaaatggcaa	agcctggatt	tgaacagaga	ctccagcttc	cttatgtgta	840
gccatctcac	catgctactt	ctcagggggg	tactatgagt	gtctctcatg	tccccagacc	900
cagattacag	gtttggagga	atacacagcc	caccttccca	atatcgagag	caacagttcc	960
accaaattgcc	ctgcatggca	tcacagggag	cctagttgcc	cactgctcta	ctgctgagct	1020
caatgccacc	cagcccgggc	tctctcga				1048

<210> 315

<211> 1530

<212> DNA

<213> Homo sapiens

<400> 315

gaggggcaact	ctcccagctg	agcccggata	tgaggtgtgg	ggagcccagc	atgggagcag	60
ggctgagccc	agataccact	gcctgcaagc	ctcagtggct	tgccggccact	gccctgtctg	120
cgcctcagtg	tccctatctt	taaaattcag	agattgaatt	gggggctcta	gcaaacacag	180
tggacctggg	gatggctggg	ctggcccggg	ccgaaggatg	tttccgccc	ggctgtgcct	240
cctctgtccc	catccctccc	tcggaagccc	agagtgcagt	tttccaatat	accccagcct	300
catgtggggg	cactgggcac	aacacacag	gaggcaaggc	cctgtccctt	ccaccagtct	360
ctcccaactgt	ggctgcccga	gtctgtcctg	gaactggcag	aggaagacat	tagggcagac	420
gtcgagggcg	gggggggtcac	cgctccactgt	catggcccct	ctccccacc	ccctcactgc	480
tctggggggc	tcacaccttc	ccttccgctg	cctctcctgc	ctggatgcct	gcctcttctt	540
gtgggggttat	ctaaactctg	cccacctat	agggggccagc	tagacccttc	ctcctcagcc	600
ccaaagagga	gcttgggtcc	ggctcacagg	cgaggggagc	ctggaagccg	tgagtccctga	660
ggaactaact	gctgggcaga	agggaggcaa	ccggggctga	gtaaccgaga	tcctgagact	720
ccagggctctc	ccaccacaga	acagccccag	gagtcctagc	catgtgggtg	gggtagagct	780
atgtggacca	gcctccatgg	ctcagtttcc	ccactggctc	ctgtgcaccc	ccatggcccg	840
gagcaggagg	cggaggagtg	gtcctctctg	cctcagtttc	cccaccggct	cctgggcacc	900
cctcatggcc	cagagcaggg	agcagaggag	tggtcctctc	tgccctgactc	agtttcccca	960
ctggctcctg	tgcacccctc	gcggcccggg	gcagggagca	gagcagtggt	cctccgcccgc	1020
cccctctgaa	ggtccctcaa	gccctgctgg	acccctcctc	gcctcagcct	gggttccagc	1080
tcttctccaa	gaccaagacc	ccagctgccc	caggacagct	ctacaggtgt	ggaggcctgg	1140

tccagccaca	gctccagctt	acttgctgtg	tgacctcggt	cgatgctgga	cccttctgga	1200
aaatggaccg	gctggaccat	cttcaggggc	tggaccggct	gatctccgag	ggaaaggagg	1260
cacatttatt	tgtgagacca	ttgtctttcc	atctggggat	gccagctcca	aggcagccag	1320
gctcctctgg	gctttgtccc	aggctccagg	tagggcacac	agttggccct	tgtctgccat	1380
cagcgctccc	agggtggtct	ctcacctccc	gccctccctc	cccaggaggc	tggagagggt	1440
gggacagAAC	caggtctcaa	tccaccagcc	ttgggaaagg	gacatccggg	gcagggcgcg	1500
gggagggggg	gcacggtgct	gcctcgaggg				1530

<210> 316

<211> 1178

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (138)

<223> n equals a,t,g, or c

<400> 316

gaaagcaggc	tcatttgggg	actgattcaa	gcagggttct	gaagaaagag	ctagcccact	60
gcgcagtggc	ccacctggag	aggtagcagt	ctcctttcct	gatgccagat	ccaagcagag	120
gctcaatgctg	gagaccanga	tgcccgtggg	agaatccctg	tagctagagg	gaattatctg	180
gaagtaattt	atccctgtac	cgccttgtgt	ggttgggtgt	ttcttgccca	ctgcatgagt	240
tggtattact	ctaagagcga	cagatacatg	ttttcacatg	ctttccatgt	actagacact	300
ttctaggcat	cagttctcaa	catgacaaag	agatccttct	cagggaaatc	agatccctct	360
tccactgctg	aaaaacccca	cagtggctcc	catttcactt	ggcataaaca	ccagtggcct	420
tgcagtggct	gccaaaggta	aaccatctgc	ctttctgctt	cctgctcacc	cttttccttc	480
atcttctcay	cttttctgtc	ttctccatag	ctcacactcc	cctagccaca	ctgtttctcct	540
tctacaatg	cagcacactg	ggcatgcttc	taccccaggs	cccttgccac	agccgmacca	600
tttggttgac	atgcttctcc	ccagattctc	tgcttggtta	actccgttgt	gctctgggtt	660
ttgtcaagca	gtcaccttct	ccatgaggcc	cacctgggcc	accatattta	acactgcagt	720
ctacactgcc	tctctcccca	ccaccagcca	ctcccaggcc	ctcactctgc	ttcctttatt	780
ttttccattt	cgccagccat	cttccaacac	atgggaccac	atccttattt	attgagtgtc	840
ttgttgacag	tctctaagac	tgtgcctgcc	ttgttccactg	atgtatctct	agcgcctaca	900
acagggctcg	gcacagagta	ggagctcagt	aaatacttgt	ggaatgaatg	aatgagctca	960
ttttacctca	atcacaactc	caggggtaga	catggtgatt	tactccatt	ttatgggtga	1020
agctcagaag	cttacggaac	ttgcccagg	tcacatagtt	agtaagtggc	tgagtgcgc	1080
atcaacccaa	agcctgtctt	actctgggg	cctggatctt	aaccaaaca	ctaagctctt	1140
ccctcctcca	ggtgagcccc	tggctctgat	gcctcgag			1178

<210> 317

<211> 825

<212> DNA

<213> Homo sapiens

<400> 317

tgcaggaatt	cggcacgagc	cagagcagcc	ctcaaagcct	gggctgttga	gagtgcacat	60
cctggcctgc	ggtgacagcc	gtcagatggt	gaggggcccc	aggcgactgc	cccagcagca	120
gggcctggga	gctgcacagg	ggagaactcg	ataaggagca	tcatgagcat	agtgggtcca	180
ttgacaacat	gcagtcccca	cgggtggtgc	taatgacaaa	atgacatcat	gccacctgca	240
aaaaaagtaa	aaatgatcag	aggcgagctt	gtcagagaag	ctttgaacta	ggtgactgca	300
tgaaacatct	cagaggcgga	agagtgcctc	cccctccccg	ggactccac	ctgggtgcct	360
gagctcatca	tcccttctct	tgtagcatat	gctgtcaata	cccagggcct	tttcgaaacg	420
gcaatgggtc	cgaaggcctc	gggaccacct	ttcacacctc	ccctttatgc	agtgtccata	480
cctccttggt	gtcagctgc	tggtcagctc	catatgccct	gtggtccctg	ccctcccaag	540
gcctgtgaac	aaatgcttag	tcccagatta	gagctctact	caatctggga	tgtgagtga	600
gtgggcacctg	tcgtgaacca	ggccagagtc	tacgcaatct	gggtgtgag	ctgagtggca	660
cctgtcgtga	acgtgcatgc	acatgggcat	tttgtcagtc	tgcaccggtg	aataaatgtc	720
gctgcatttg	ccagctgagt	gtcaccaggt	tccaggtccc	attacacatc	aggaattgtg	780
tccgactctt	ctggatccgc	tgattggacc	tgagggatcc	ctgac		825

<210> 318
 <211> 853
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (20)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (40)
 <223> n equals a,t,g, or c

<400> 318
 aattcctaac gcaaaagcan ccctggggaa gaacacagan acaggtgaca cgtgtcagac 60
 tggggcccatg tcaggtacat gtatttccct tcacctcacc ctgaaatgtg ccatttcaga 120
 aagtgggtgca tttaccagac aatttggtt gatcatcatg ttagccactt ggcattctcag 180
 tcaccatctt gggtcacctgg tcaacatagc aaccacatct cttgggtcagc tagctttatt 240
 tgcaccttga tctaagat agatgtcatc tgcaaagctg ttaataatc ttaataatgg 300
 tctttattat ttccagatcc ctagagtaac cttagaacag caagaactat tcattcatcc 360
 ataaattcca gcaagggtgct atagaaagca ctatggaaaa aagaggaaaa gagagggaga 420
 acatattgta aaagtagaca gggatttctgc tactgagaaa ttcaacacct ggcaaggggg 480
 atgaacagga aagagaggtg ctggcagaat aaaatcactc cccagctccc cacacaatga 540
 gcaatgagta tgctatttct attttgtgtc catgtgtcct tgctcatatt cttaatctgc 600
 agcccaatgc tctacctctg agctataccc cctcctcctt gctcactc ttacttgtga 660
 cttgaagtga cttcctgctc ctgcctattg tcacctcccc catgaaggct tcccccaatta 720
 tcctgaagca gagacagtc atccctccct ccctgtgca accagggccc ctgggctgac 780
 ctcaagcttc tcacacttgg ccataactag ctttttaggta tttatctccc acactagact 840
 ctgagctcct cga 853

<210> 319
 <211> 573
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (35)
 <223> n equals a,t,g, or c

<400> 319
 ggngcttcag ggaattcggc acgagctcgt gccgncagaa tctccagctc ttatatccag 60
 agtggcatcc gtgtgacata gtcattcttt gtatgtgtgc ctttagccta tgggtcattg 120
 tcagaattta gaaattcaag gtgcagccag ttacattgct agagagatgg aatatttcag 180
 agtctctgca gcttccttta agaaaaatgt cttcttttgg aaagccattc agaaaacata 240
 ctcagtagga cagtttcaac ttattaaact ttcaggaaat ttttttaatt gtctcacact 300
 gtctcttttg ctgtataaat tttaacagca gggtaaagag agaagcgttc ttgaatttca 360
 ctagctgcgg agaaaaatatt tctcactgcc ctgggataca taggaaatca cagtcgtag 420
 tttcagatgt ttagtttggg atattcaggt gcattcacia taccttttga ttcattatta 480
 ctttaaacca tttgtggtt gatcctacaa attgaggact tttctccaga tgtgaaaaat 540
 acaataaaat tttctaacia aggggatctc gta 573

<210> 320
 <211> 903

0950082 0922160

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (94)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (889)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (898)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (900)
<223> n equals a,t,g, or c

<400> 320
tgttaccggt tgcgccgnag ccggaancgg accgaaccgc aagcgaattc attgancgag 60
gaaccggaag gagcgcccaa atacgcaaac cgcntcttcc ccgcgcgttg ccgattcatt 120
aatgcagctg gcacgacagg tttcccgact ggaaagcggg cagtgagcgc aacgcaatta 180
atgtgagtta gctcactcat taggcacccc aggcctttaca ctttatgctt ccggctcgta 240
tggtgtgtgg aattgtgagc ggataacaat ttcacacagg aaacagctat gaccatgatt 300
acgccaagct cgaaattaac cctcactaaa gggaacaaaa gctggagctc caccgcggtg 360
gcggccgctc tagaactagt ggatcccccg ggctgcagga attcggcacg agacgacacg 420
ataaataaaa gcagatgttc aaatgggaga cacctgaaga gacaagttag tccaatggat 480
aggagcgaag gaaactgccc ctttgtaaag attgaggaaa agagtgtaaa attatgctct 540
cattacactc atgctgttac taaggcctac agagagaagg tattgagagg tgacaacatg 600
ctggcagccc tcgcttgctc ttggcgctc ctcagcctcg gtgcccactc tggccgtgct 660
tgaggagccc ttcagcccgc cgcttcaactg tgggagtccc tctctgggct ggccgaggtc 720
aaagccagct ccctctgctt gcagggaggt gtggagggag aggtgcgggc aggaactggg 780
gctgcgcgcg gcacttgtgg gccagctcga rggggggccc ggtacccaat tcgccctata 840
gtgagtagta ttacaattca ctggccgctc ttttacaacg tcgtgactng gaaaaccnng 900
aaa 903

<210> 321
<211> 909
<212> DNA
<213> Homo sapiens

<400> 321
 ggcacgagcc agaagaggga ttgctgggtc atatggtagt ttaatttttt tcagcaatct 60
 ttgtattgtt ttccataatg gctacaccaa tttacattct cattaacagt gcaaaagggt 120
 ttttgtttct ctataccttg ccaacttggt atctattgac tttttgataa taggctttgc 180
 atttgcctga tgattaatga tattgaacac attttcatat acctgttggc cactttttat 240
 gtcttctttt gggaaatgtt tgtttattct ggtacttggc ctatttttta attgggtttt 300
 tgtttttttc tttgctattg attttcttaa atttttggat agtaacctgt tatcagatat 360
 gtgggttcaca aatattttct cctactctgt agattgcctt ttcattttat cgattatttc 420
 ctttgctctg tagaagcttt tcagtgtgat gtagtcctac ttgtttgttc ttgctttcat 480
 tgccctgtcct atcagaaaaa tcattgccaa ggccaatatg tatcagcttc tttcctatgt 540
 tttctcctag gtgttttaca gattcaagtc ttatgttttag gtctttaatc tgttttgagt 600
 tgacttttgc tcttgggtga agataagggt ccaatttcat ccttttgcac gtggatatcc 660
 agttttccca acactagata tgaaagagac taaactttac ccattgtgtc ttcttgggtc 720
 ctttgtctaa gacacttcta tgacagtgtt ttctcagatg ggtacttgtt tacgtgattc 780
 acaacagtga atggaaatgt ttaccactca tcactccatc taacacacct tgttaagaca 840
 catgtaaaaa ctgttcta atgtaccagt gcaactataa ctgaaaatag tattatttta 900
 ggaactagt 909

<210> 322
 <211> 901
 <212> DNA
 <213> Homo sapiens

<400> 322
 gctcgtgccg caccgggaggc agagggttga atgagtcgag atcgtgccat tgcactccag 60
 cctgggcagc agagcgagac tccggctcaa aataataata ataaattaga gatgggggtc 120
 cactattttg cccaggctgg ttttgaactc ctgagctcaa gggatcctct cgcctcagcc 180
 tcccaaagca ctgggatcac aggtgtgagg tgccatgcct ggcccacacc agctgtgttt 240
 aatcaatgct gggcagccct gcagcttggg gacatcagtg ggccactggc tactgggtgt 300
 tttttccatc ctgccctggt ccctgctggc accaggggaa aaaggcccat acaggagtct 360
 gttccaggtc accagatcct ggggtggccc gtaaggattt gaaggggaca ggaggcgccc 420
 ctttgccgag gcccttccat gtgtcaggca cattgctggc tgccgtgggt gcacaatctt 480
 agggaaacct cctgectcct ccgccttgct gcttccttgc aaagaaaatt tcccactgca 540
 gagggcagct taattgctca gcagtggctc ttcagaatct cacagatggg ccaggcgtgg 600
 tggctcatgc ctgtaatccc agcactttgg gaggccgagg cgggcagatc atgaggtcag 660
 gacatcgaga ccatcctggc taacatggtg aaaccccatg tctactaaaa atacaaaaaa 720
 attagccagg cgtgggtggg ggtgcctgta gttccagcta ctctggaggc tgaggcagga 780
 ggatcacttg agcccaggag gctgaggttg cagtgagctg tgactgcacc actgcactcc 840
 agcctgggca acagagcaag accctatctc aaaaaaaaaa aaaaaaaaaa aaaaactcga 900
 g 901

<210> 323
 <211> 790
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (9)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (11)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (18)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (92)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (756)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (764)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (771)
 <223> n equals a,t,g, or c

<400> 323

ggggncggna	natggaangg	aaccctcact	attgggttca	aaagctggag	ctccaccgcg	60
gtggcgccg	ctctagaact	agtggatccc	cngggctgca	ggaattcggc	acgagatddd	120
tttcttgaaa	cacaaaaatg	catgttatgc	caggggaagga	agaggagaaa	tttctcctcc	180
tcataccat	catgactacc	tcctctcttg	cggttggctg	cttcggatgg	ttgaggctcc	240
tgctgcattt	tttagatccg	ggcaattata	atcttatcatc	atcgttttgt	taaaaaacct	300
tgttcaaaaa	tgactgatag	ataaatgacc	atcgttttgt	taaaaaacct	taaaaaacct	360
tttttcttat	aaagttaaca	aaccaaggct	gttgatccct	gaattagaaa	gttgatttgc	420
ttgattattd	tccaaagtgt	gaggcgggca	ataagaaggg	aggagccttd	agtgccttdg	480
tgtaagttgc	tgatcctcca	gtttggcaac	atcttggggg	catcttctgg	cctagtgtatg	540
tggcatttdg	tgaatctaag	tatcagccca	tggctctgat	gctggctgct	tatggctcaa	600
aggggaagag	ggtcagcccc	ctccccctgg	atgtttcagt	ctggcccagt	ggtggacaca	660
gagccctgga	cagcttcccc	aggagcaact	gtctcttctc	gtgaaggtga	ctcttctcca	720
gcttgctctc	gaggggggga	mcgrtaccca	attcgnccca	tagngagcga	ntacaattca	780
cttgcccgcg						790

<210> 324
 <211> 1959
 <212> DNA
 <213> Homo sapiens

<400> 324

ccacgcgtcc	gattgctctt	tatttcccta	tctagattdt	ctaagtatct	tagctttctt	60
aatataagtt	taacttggtg	cttactgaaa	atgccttdttd	acccctgtta	acggtattdt	120
gagcttdtga	aaagaacttg	gttgacactg	cttdttatgt	ggataaagga	gagatggtca	180
gtaattaatg	gcttgaagta	ttattggagt	ggtttatcat	ttctgaaact	aatcgtgtca	240
gaattgactt	tgaaaagcat	tgcttdttdt	agaaatatat	taacttdttd	ggagtaattd	300
ctagtdttdg	ttgtaatatg	aaataattdt	aaagggcttc	gctcatatat	aggaaaatcg	360
catatggtcc	tagtattaaa	ttcttattgc	ttactgattt	ttttgagtta	agagttgtta	420
tatgctagaa	tatgaggatg	tgaatataaa	taagagaaga	aaaaagaata	aagtagattg	480
agctctcaat	tttatgtaag	cttcagaaga	actggttdt	ttacatgcaa	gcttatagtt	540
gaaatattdt	tcaggaatta	catgaatgac	agtcttcgaa	ccaatgtgtt	tgttcgattt	600
caaccagaga	ctatagcatg	tgcttgcatc	taccttgcat	ctagagcact	tcagattccg	660
ttgccaactc	gtccccattg	gtttcttctt	tttggtacta	cagaagagga	aatccaggaa	720
atctgcataa	aacacttagg	ctttatacca	gaaaaaagcc	aaactatgaa	ttactggaaa	780
aagaagtaga	aaaaagaaaa	gtagccttac	aagaagccaa	attaaaagca	aagggtattg	840

atccggatgg aactccagcc ctttcaaccc tgggtggatt ttctccagcc tcaagccatc 900
 atcaccaaga gaagtaaaag ctgaagagaa atcaccaatc tccattaatg tgaagacagt 960
 caaaaaagaa cctgaggata gacaacaggc ttcaaaaagcc cttacaatgg tgtaagaaaa 1020
 gacagcaaga gaagtagaaa tagcagaagt gcaagtcgat cgagggtcaag aacacgatca 1080
 cgttcttagat cacatactcc aagaagacac tattaataat aggcggagtc gatctggaac 1140
 atacagtcga gatcaagaag cagggtccgc agtcacagtg gaaagccctg aagacatata 1200
 atcatggtct cttaccttaa ggccaagcta ccgagatgat ttaaaagttc aacgacatgg 1260
 tcataaagga aaaaattcgt ctcgatctca gagcaagttc gggatcactc agatgcagcc 1320
 aagaaccagg catgaaaggg gcatcatagg gacaggcgtg aacgatctcg ctccctttgag 1380
 aggtcccata aaagcaagca ccatggtggc agtcgctcag gacatggcag gcacaggcgc 1440
 tgactttctc ttccctttgag cctgcatcag ttctttggtt tgccctatcta cagtgtgatg 1500
 tatggactca atcaaaacat taaacgcaaa ctgattagga tttgatttct tgaaaccctc 1560
 taggtctcta gaacactgag gacagtttct tttgaaaaga actatgttaa tttttttgca 1620
 cattaaaatg ccctagcagt atctaattaa aaaccatggt cagggttcaat tgtactttat 1680
 tatagttgtg tattgtttat tgctataaga actggagcgt gaattctgta aaaatgtatc 1740
 ttatttttat acagataaaa ttgcagacac tgttctattt aagtggttat ttgtttaaat 1800
 gatgggtgaat actttcttaa cactggtttg tctgcatgtg taaagatttt tacaaggaaa 1860
 taaaatacaa atcttggttt ttctaaactg cttcaaatac cttattttaa taaattatta 1920
 aaaaggaaaa ttttaatagc aaaaaaaaaa aaaaaaaaaa 1959

<210> 325
 <211> 922
 <212> DNA
 <213> Homo sapiens

<400> 325
 tgcctttcag gctcttagaa gccatagatt tggacaagcc cagcaagatg ggtgtccttc 60
 caggcctctt cccctttcct ccatctctgg caacagttct tgggggtttgg caattgtttg 120
 gatttttttt ctttctgcag ttgtgtgtat gtgtgtttgt gtgaagaaaa acagactctg 180
 tccaggtaga aatggtgagg agggggaaga gaattacatt tccagggtca gaaacttggc 240
 aacagttttc cttagtgac tcagacacac cacagtaaca actctcgctg caatttttatt 300
 ttaattttgag aaataaagat ttctccaag ccacatgagg actctggcac ccaccacaa 360
 agcaagacct gtattttataa gccgagggct caggggagcct aactgcggga cccgtcaggg 420
 ccccgtagac catccccgct cccaccccc cctccaccgc tgggcccac agtgtgtgtt 480
 ggggggatgc ttggcagctg ggggtgagga gacaacaaac ctcggggaact ggagccagag 540
 ctgcggcctg actgacgcct tttgatgctc acgggaaatt tctgcccagg atctcagccc 600
 caggctggtt gtttctacaa atctctctca aatgtattat tttggtgaca aaaatgaagg 660
 agctttgtaa atttttttaa aattatgaat catatcaagt agttgtttac atttcttgaa 720
 aaaataggaa ctcgggcagc agaatcagat tggcagaatc ttagactac acaggcaata 780
 atcaagtctg ctgtttttggc ctttcgtagt agaagtgtt gtagtgttta gatatctgtt 840
 tgggtcttgct tcttgattg catttttttc aataaacaac aacaaaaaga aaaaaaaaaa 900
 aaaaaaaaaa aaaaaaaaaa aa 922

<210> 326
 <211> 927
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (883)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (912)
 <223> n equals a,t,g, or c

<400> 326
 gcttcacg tgaacaaggg tgtttactga atgtggagaa gtcagtgaat tctccacagt 60
 gacagatgca ctctggagat ggggctgagg ctaggtgtgc acctcccctg ccagccatca 120


```

gcagcctgcc cacgtctgtc gcgttatgag ttgttgatct taaatttctg caaatgtttc 180
ttgttacaga gtatgggtgtt tgcraaaact tgcggaagct ggagatcaca ggcgtgtctt 240
gtcgggacgt ctatgcgaag cgtattaaac cctcgcgtga agtcgggacg ttttgtgaaa 300
attctccctg attatgagca catggcgtac agagacgttt acacctgcct gcttcaccga 360
tatagacaca ttttgggatt gtggcagcca gatatcgggc catacggagg actgctgaac 420
gtggtggtgg acggcctgtt catcatcgta atgaggcgtg cgccgccaat atgcactgta 480
cattccacaa gcattgcctt cttattttac ttcttttagc tgtttaactt tgtaagatgc 540
aaagagggtt gatcaagttt aaatgactgt gctgcccctt tcacatcaaa gaactactga 600
caacgaaggc cgcgcctgcc tttcccatct atctatctgg ctggcaggga aggaaagaac 660
ttgcatgttg gtgaaggaag aagtggggtg gaagaagtgg ggtgggacga cagtgaatc 720
tagagtaaaa ccaagctggc ccaaggtgtc ctgcaggctg taatgcagtt taatcagagt 780
gccatttttt tttttgttca aatgatttta attattggaa tgcacaatth ttttaatatg 840
caaataaaaa gtttaaaaaa ttaaaaaaaa aaaaaaaaaa aanccccggg gggggccccg 900
gwaccaatth cnccccacaa gggagcc 927

```

```

<210> 327
<211> 929
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (904)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (906)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (914)
<223> n equals a,t,g, or c

```

```

<400> 327
gcttcacatcg tgaacaagggt tgtttactga atgtggagaa gtcagtgaat tctccacagt 60
gacagatgca ctctggagat ggggctgagg ctaggtgtgc acctcccctg ccagccatca 120
gcagcctgcc cacgtctgtc gcgttatgag ttgttgatct taaatttctg caaatgtttc 180
ttgttacaga gtatgggtgtt tgcgaaaact tgcggaagct ggagatcaca ggcgtgtctt 240
gtcgggacgt ctatgcgaag cgtattaaac cctcgcgtga agtcgggacg ttttgtgaaa 300
attctccctg attatgagca catggcgtac agagacgttt acacctgcct gcttcaccga 360
tatagacaca ttttgggatt gtggcagcca gatatcgggc catacggagg actgctgaac 420
gtggtggtgg acggcctgtt catcatcggt trratgaggc gtgcgccgcc aatatgcact 480
gtacattcca caagcattgc cttcttattt tacttctttt agctgtttta ctttgtaaga 540
tgcaaagagg ttggatcaag tttaaatgac tgtgtgtccc ctttcacatc aaagaactac 600
tgacaacgaa ggccgcgcct gcctttccca tctatctatc tggctggcag ggaaggaaag 660
aacttgcatt ttggtgaagg aagaagtggg gtggaagaag tggggtggga cgacagtga 720
atctagagta aaaccaagct ggccaagggt gtccctgcagg ctgtaatgca gtttaatcag 780
agtgccatth ttttttttgt tcaaatgatt ttaattattg gaatgcacaa tttttttaat 840
atgcaaataa aaagtthtaa aacttaaaaa aaaaaaaaaa aaaaaccccc gggggggccc 900
cggnanccaa ttcnccccaa aaggagcc 929

```

```

<210> 328
<211> 1298
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (237)

```

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1291)

<223> n equals a,t,g, or c

<400> 328

gagctccctt	cctcgtgctc	ggcgttragg	tcctgcagcc	gccgccgctg	cagtgggtcgt	60
ccctgccctc	cccggccccg	gggtgcaccc	cgcaaggctc	ccgctgggtg	ccctggagca	120
tgggaggctg	ctgagcgtga	gtggcggtgt	ctggcaggag	ctgcgtggca	gggagggcgt	180
ccatggctgc	agccaacaag	ggcaacaagc	ccagagtccg	gagtatccgc	tttgcgncag	240
gccacgatgc	agaaggatcc	cacagccacg	tccactttga	tgagaagctg	catgactcgg	300
tggctcatgg	caccaggag	agtgacagca	gctttctggt	caagggttgg	ttcctgaaga	360
tcctgcacag	gtatgagatt	accttcactc	tgccccagct	gcacaggctg	agcaaggatg	420
tccgcgaggg	acctgtcccc	agcctgcacc	tcaagctcct	cagcgtgggtg	cccgtcccctg	480
aagggttatag	tgtcaagtgt	gagtactcgg	cgcacaaaga	gggcgtcctc	aaagaggaga	540
tactgctagc	ctgcgaagg	ggcactggca	cctgtgtgctg	cgtgacgggtg	caggcccgcg	600
tcattggaccg	gcaccacggc	acgcccacgc	tgctggatgg	tgtcaagtgt	gtgggcgcgcg	660
agctggaata	cgactcagag	cacagcgact	ggcacggctt	tgactgaggc	ccgaggcccc	720
gcttgccccg	ggccccctcag	ccttaaacc	cgccttgtcc	ccccgacatg	ctgctgtgatg	780
gtgtggcttc	ctcgccccctc	tctgggggtg	gtgtgggggtg	ggagtggcct	tgccccagcc	840
tctcacctct	gccttcattt	gtgtgtgccac	cctgccccctc	cctcgtcctc	ctctcccact	900
tcctcctctc	tgtgtgcctc	agtctcctgc	cggaagaaat	gggttgagcc	cgaaaggagg	960
ctgtctgagg	aaggagaggg	gagggcctgg	ggtgggtccc	ccactcccca	ccccaaagcca	1020
caggggtctc	caccagggtc	tgggagagga	cggagctggc	tctgtggcgt	cgtggcccca	1080
ttactgctgc	cttgcttcag	ccacctctcc	tgccccctcc	tagtccccac	tgctgtccac	1140
catgagtagg	agggaggtgc	agtccccagc	ccccaccctc	caggtctgtg	ttacttgggt	1200
tttaagcgac	tggttgggat	agaaccctaa	agaaataaac	ttccagtgga	taccggaaaa	1260
aaaaaaaaaa	aaaaaaaaact	tggggggggg	nccccgta			1298

<210> 329

<211> 900

<212> DNA

<213> Homo sapiens

<400> 329

ggcacgagct	catcttaatg	aattaagtct	gggaatataa	ttatgtctgg	gaatataata	60
gagaagactc	tatttctctg	gttctgggtg	agtatgaact	tttgggggat	actaacttac	120
tatatactca	ctaggttaat	ctatgctaaa	tacccaacag	gaaggcagct	gtagggaaaa	180
gcaagagtat	gaaacctgga	aaaacaattg	ccagactctg	ctgcttgggtg	gtatgtggcc	240
gtgggtaagg	tagttgctct	gtgctttcag	cttccctcatg	tacaaaattg	agataataat	300
gatgcccact	ttgtggaatt	cttgtaaaga	tgaaaagatt	ccaaatatgt	aaagtgcata	360
gaacaatccc	cagcaaaaag	tggaaacatgt	tagtgataat	tgctgtcata	gtcgtgtctc	420
ttgcttagta	ggcctgagat	aaaactttct	cctattttcat	ccctcctcct	ccctcctcct	480
gattttacat	gttatttagt	tgtttctccc	tctcactata	attattttgtg	agaagttaca	540
agagttatac	tatggtagag	cagacaggct	ttgcacacct	tcagggtcag	ttctggacca	600
aaccactcag	aaaccactgc	acggatgaat	ggctggagat	tgtggggcct	attgtgtctc	660
caggtggctg	tggttacatg	ggatccctgg	aatgttaatt	aattttcata	tttcccttta	720
aggtacttct	gtggctcaaa	caatgaattt	ctgagttagg	tcccaaagtg	gcatttttgt	780
ttgccaacac	cctcatagga	aactgtatta	gaagctttct	tgtaatat	aagagccttt	840
aaaagagcga	gactccgtct	ccaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	900

<210> 330

<211> 604

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (152)

0950032-091201

ttgaggctgc	agtgagccgt	tatcgcacca	gtgcattcca	gcctgggtga	caaagtgaga	900
ctgcctcaaa	aaaaaaaaaa	aaaaaac				927

<210> 333
 <211> 2218
 <212> DNA
 <213> Homo sapiens

<400> 333

aattcggcac	gagctcagcc	acccgctggg	aatcgtgcag	ggattcttcg	cccaaaatgg	60
agttaatcct	gactgggaga	agaaagtaat	tgagtatttt	aaggaaaagt	gaaggaaaat	120
aatgctccta	agtgggtacc	atcactgaac	gaattcccct	tcattatttg	aaacctaata	180
gttttgtgaa	atttcgttgc	atgattcarg	atatgtttga	ccctgagttt	tacatgggag	240
tttatgaaac	ggttaaccaa	aacacaaaag	cacatgttct	tcatttttga	aaatatagag	300
atgtagcaga	gtgtgggcct	caacaagaac	ttrattttaa	ctctccacga	aataccactt	360
tggaaagaca	gactttctat	tgtgttccgg	tgccctggga	atctacgtgg	gtaaaagaag	420
cctatgttaa	tgcaaaccac	gctcgagtca	gtccctcaac	atcctacact	cctagtcgcc	480
acaagaggag	ttatgaagat	gatgacgata	tggacctaca	gccaataag	cagaaagacc	540
aacatgcagg	tgccagacaa	gcagggagtg	ttgggtggtct	tcaatgggtg	ggagagccaa	600
aacgtttaga	aactgaagct	tctactgggc	aacagctgaa	ctctctgaac	ttgtcttctc	660
cttttgaatt	gaattttcca	ttgccaggag	agaagggccc	tgcatgcctt	gtgaagggtt	720
atgaagattg	ggattgtttc	aaagtaaatg	acattcttga	gctatatggc	atactgtctg	780
tggatcctgt	gctgagtata	ctgaataatg	atgaaaggga	tgccctctgca	ctgctggatc	840
cgatggagtg	cacagacaca	gcagaggagc	agagagtaca	cagtcctcct	gcttcattag	900
tgccgagaat	tcatgtgatc	ttagcccaga	agttgcaaca	catcaacca	ttattgcctg	960
cctgccttaa	caaagaggag	agcaaaacct	gtaagtttgt	ttcaagtttc	atgtccgaat	1020
tgtctccagt	cagagcagaa	cttcttgggg	tccttactca	tgcccttctg	ggggatagtt	1080
tggctgctga	ataccttata	ttacatctca	tctccacagt	atatacaaga	agagatgtcc	1140
ttccactagg	aaaatttaca	gttaacttga	gtggttgccc	acggaatagt	accttcacag	1200
aacacttgta	tcgaattatt	caacatcttg	ttccagcatc	ttttcgtctg	cagatgacta	1260
tagagaacat	gaaccatttg	aaattcattc	cccacaaaga	ctacacagcc	aatcgcttgg	1320
tcagtgggct	cctccagctg	cccagcaata	cttcccttgt	aatcgatgag	actctcctgg	1380
aacaggggca	gctggatacc	ccaggtgttc	ataatgtgac	agccctgagc	aacctcataa	1440
cgtggcagaa	ggtggattat	gacttcagct	accatcagat	ggaattcccc	tgcaatatta	1500
acgttttcat	tacttcggag	gggagggtcac	tcctcccggc	agactgccag	attcacttac	1560
agccccagct	aattccacca	aacatggagg	agtacatgaa	cagccttctc	tcagcgggtg	1620
tgccctccgt	gctgaacaaa	ttccgcattt	atctaactct	tttgagattc	ttggaatata	1680
gcatacttga	tgaaataacc	aaggcagttg	aagatgactt	tgtggaaatg	cggaagaacg	1740
accctcagag	catcatctgt	gatgatcttc	accagctgct	cgtgggtggc	cggtgtctgt	1800
ctctcagtg	tggtcagaca	acgctgtcaa	gagaacgatg	gctgagagca	aagcagctag	1860
agtctttaag	aagaacgagg	cttcagcagc	aaaaatgtgt	gaatggaaat	gaactttaaa	1920
gatgtaatac	ctatgaagag	taatgggcaa	actgtagcca	cataattgta	aaattcagat	1980
attcatttat	accacattgt	tttataggta	atttctatca	caaaccagtg	acatttctctg	2040
aatcaagcc	tggtaacacc	tgatgtttat	atgatattca	gtaaggactt	ttaccttact	2100
gatttcatgg	agctttttgaa	gtttgtttta	taataattat	ataaattagt	aatgatgtaa	2160
aaaaagtatt	tgatattaaa	agtttaatat	tgaaaaaaaaa	aaaaaaaaaa	aaattgcy	2218

<210> 334
 <211> 1356
 <212> DNA
 <213> Homo sapiens

<400> 334

cccacgcgtc	cgctctgcga	sccttgaccg	cagcttggca	tgtggaatgg	accccttcac	60
ggcctcgaca	cccttggggc	cgctggactt	tggaacagtg	gtggccacac	tggaccggg	120
ggctgccgtg	cacctcacc	ttgcctgcga	ttacgactcc	aagctcttcc	catctgggtc	180
gactcccttt	ctggggggcca	cggattcggc	gtgcccctgt	gccctgctgc	tggagctggc	240
ccaggccctc	gacagggagc	tgagtagagc	caaggagcag	gaggcccg	tgactctgca	300
gctgctcttc	ttggacgggtg	aagaggccct	gaaggagtg	gggccccagg	actccctcta	360
tggctcccg	cacctggccc	agctcatgga	gtctgcccc	cacagcccag	gccccaccag	420
gatccaggct	atcgagctct	tcatgsttct	cgatctcctg	ggcgccccta	atccgaactt	480

ctacagtc	cat	ttccctcaca	cagcccgc	gttccatcgc	ctgcggacat	cgagaagcga	540
ctgcaccgc	taaacctgct	acagtctcat	ccccaggaag	tgatgtattt	ccagccgggg		600
gagccccctg	gctccgtaga	agatgaccac	atcccccttc	tccgtcgagg	gggtcccagtg		660
ctccacctca	tctccatgcc	cttccccgac	gtgtggcaca	caccccacga	ctctgaggcc		720
aacctgsacc	ccccacagt	gcacaacctc	agccgcaccc	tcgccgtgtt	cctggctgag		780
tatctggggc	tctascctcc	acggctgacg	ctkgaggaga	ggagcccggc	caggacgtgc		840
caaggacacg	tggaaccaat	ggacctcagg	ccagggccgc	cctcggtatg	ctggcttatc		900
cttttatttg	gcatgggttc	tacttgtgct	atgatttgaa	gacctctttt	cctctgtctc		960
aaaccacat	tctttaaaga	catggaggag	tcaagaccac	tgtgggggtt	gcagccaaag	1020	
gctctttctca	gtttcatggt	cggcataccc	tgggctggca	tctggaccgg	tcacagcacc	1080	
ccaccaaag	aattctctgc	ggcttgtgkt	tttatgtcca	tggactgccg	tgtgggggtc	1140	
cacaggggat	gtgcttgac	gcaggaacag	aggaggtgga	agccaatatt	tgggaactcg	1200	
agtcggccag	acccaagggc	aacagaccaa	tgtttctgtg	aaacatattc	tacagattag	1260	
cattacaagg	tgttgcata	aaaaggggat	cgaagacacg	ggatgagaca	ttaaatgagt	1320	
ttcttcattg	caaaaaaaaa	aaaaaagggc	ggccgc			1356	

<210> 335
 <211> 1036
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (869)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (894)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (915)
 <223> n equals a,t,g, or c

<400>	335						
tcgacccacg	cgctccgtgaa	attcagacac	aacagcaaga	ggaatggagc	actaccggaa		60
agctggctct	gtggaactcc	cagcaccttc	tccgatgccg	cggctacctc	ctgataccct		120
ggagatgcgg	gtccgagatg	gcagcaaaat	ccgcaacctc	ctggggctgg	cactgggtcg		180
attggagggtg	gtgggtgcacg	gcatgtggtg	ttctcagggtt	ctggtcgggc	tgcagggaag		240
gcagtcagct	gtgctgagat	tgtcaagcgg	cgtgtaccgg	gcctgcacca	gcttaccaag		300
ctgcgcttc	tgcagaccga	ggacagctgg	gtgccagtct	cacctgacac	aggcctggat		360
cccctcacgg	tacgcgcgca	tgtacctgca	gtgtgggtac	tgctcagccg	ggaccccttg		420
gaccccaatg	agtgtggcta	ccagcctcca	ggagcacccc	ctggcctggg	ccccacatca		480
agctccagct	gtgggtccacg	accccgaaga	agggttcgag	acacctggtc	ctaaagatgt		540
gccaagcaag	ctgtttttcca	cgcataaatg	tctaggatgg	ctttgcctcc	tcaggaaagc		600
ctcttgtaac	tgttcaacat	cccccaacaag	acttgaattc	acagcctccc	tgtcctgctt		660
ccttctttct	gcagtgtgaa	aagggactgc	tatgaagagt	taaaagggtg	gcgggtctcag		720
ctgggggtctg	gattgcttaa	gaagggttta	cttggcattc	tacctactgt	gcctctgtcc		780
tttcttctga	cagagatcca	gggagtgggt	taggaaataa	acgttctgcc	catttggttaa		840
aaaaaaaaaa	aaaaaaaaaa	aaaattaana	aaaaaaaaaa	aaaaaaaaaa	aaanaaaaaa		900
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		960
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		1020
aaaaaaaaaa	aaaaaa						1036

<210> 336
 <211> 1365
 <212> DNA
 <213> Homo sapiens

<400> 336

ccacgcgtcc	ggtgacagaa	tacatgtag	aaagactgac	tgctctgcaa	ctccttatta	60
acgttaagta	ttgatgggtc	aagacaatgg	tctgaccctc	ctgagaccct	gaagcacctt	120
ctcgtgttca	gtaatcctag	cattcctccc	caagcagacc	cctcgcaggc	ctctgcatta	180
ggctctggct	ctgggtgctt	gcattgccct	ggggtcactt	cccctgcata	tgtgttggtt	240
tgtcatctcc	aggcctcttt	ggctcaacag	gctctgcatg	tcctccaggc	tttttgtgtt	300
gccacagccc	tctgtattga	tactctcag	acctgcagcc	tcagtgggct	ttttgcctgt	360
gggagaacat	atctctaggc	tctaagtcaa	gccagctgcc	tgcccagctg	agctctctgc	420
agctcttccc	attccagcta	gtttgggctg	taggaatcaa	ctgagagggtg	tccctttcct	480
gaagctacat	gcggaaatca	tttccttgct	ttacacttgg	cagtccttgc	atcactgttt	540
tctgcagtc	tgatgtagtc	tgtttctaga	attctcaagc	atTTTTtagaa	aaatattttt	600
atagaaaaat	actcaggcta	acctagtggg	tataatcttg	gagcttccag	attaccact	660
taaagatcaa	agtattatat	gctgtgtgct	ttttagctgt	tagtgctatg	aaagcaaaaa	720
tgctttctgc	gttgctcttc	ctgactctact	ggacaccaac	gagcatgtgc	ttaacgctgt	780
ggaagtaggc	tcaaagggtct	ccccttatat	agcatgttaa	gtgtttgtac	aggtttgcta	840
aaaccctttc	tatataaata	agtttattag	gttttctgtt	acgtagggtc	tctagttcct	900
tcctcctctc	aaaatctccc	tacgaagatg	gtgttccact	gagcgagctc	agcgcaagta	960
ggagagagca	gacagcttta	ctggtcacat	gtatgctttg	atTTtagcaca	atgtttcata	1020
gaaagtactg	accaggaaac	acagggtgtca	catctctaga	aagaaagtac	gtagtatttc	1080
aattcccagt	gtgtaccttc	tgtgtttttt	gtaagtaaaa	gtaagactct	atactgatct	1140
cagtcaccca	ttctgggttt	caagtatgag	ctatataggc	tatgcgtgac	gcttattaaa	1200
tacttttcta	ccatgagtaa	acttggagggt	ctgttgcaag	aaccatgaaa	aaaaaaaaaa	1260
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1320
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaa		1365

<210> 337

<211> 1478

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (42)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (49)

<223> n equals a,t,g, or c

<400> 337

cnccggggac	cgatccagcc	tccgggactc	tagcttagcc	cncgngcna	taccaatttc	60
acacaggaac	cagctatgcc	actaggcttt	tgcaaaaagc	tatttaggtg	acactataga	120
aggtagcct	gcaggtagcc	gtccggaatt	cccgggtcga	cccacgcgtc	cgattagaaa	180
ttagtgttag	aggatttaat	tagccagctc	acaggatgca	gtccctttaa	tttaggattt	240
ccctttgaga	aaattatgga	gttgaaaagg	aatatgatat	ttcatacaag	tttccatctt	300
gggcccttat	gttgtttgtt	ctgctgatct	ggaaattgta	catgatttac	attaaaactt	360
tttgttttta	atatcgatta	ttgtagtgtg	gggtgttaga	ttatgtgcaa	tagttctcag	420
agttgggaaa	ggtaaaaggg	tttttttggg	caatgattaa	ctcatctact	ttaccagggt	480
tacataatca	agtattagtt	actatacatt	tagctaatac	agtgggttta	gttaagcaat	540
gaatacatca	tcawgggagc	attaacactt	ttgcattttt	agacttgcct	ttaaaaaat	600

tacagaaaaa	ctcctcacaa	cccttgccac	cctttcagcc	ataacattac	attgccttgg	660
tttctgcctt	taattttccct	gggggttctt	tttatttagg	aaaaggggtga	aagatgtatt	720
tgtgtaagta	ctacaccagt	gcttctgtta	aattcctttt	caacaaagaa	tatgttactt	780
gggtgccttg	tacacagggc	gcatattttt	ttggaaataa	tgtgccatga	aagcagtagt	840
ttttagtgtg	catgttttatt	tcattgtctgc	cagtttat	tagcttagaa	atttccta	900
gctttgagtt	tataacagtc	tttcagttta	taacagtcct	tcagttaact	gagtgcata	960
acataatatg	cacaaaatgg	ccaactttta	gaaattgtgt	attttaaaat	cccttttttt	1020
tcagtckgat	atcatgtgtc	tccttggtcc	ctttaatatg	caactaaaat	ttamcctaag	1080
atatgaaaaa	tatgttaaga	aagcttaatt	tcttaagctt	aatttggaac	gtcaatgaag	1140
aattaaacat	ttgcttttcta	gaaaccttaa	tctttgttaa	tgtgaaatta	acatagatga	1200
tttgaatatg	tgttcatgtg	tgaggacttt	gcccccttcag	tgtttctcta	ctgagtcctt	1260
ttgacctact	ataagagcta	agtgcataa	atgccacatc	aatatggcgt	agagaagagt	1320
tctttcttcc	gctgttggtg	agtgcattat	aagagcagtt	cttcaacttt	ctgggtatcac	1380
tcttaataat	ggaagtggcc	atagcgcttt	tgcttatgag	aattatatct	agtgatattt	1440
actatgtttg	aaattaaaaa	aaaaaaaaaa	gggcggcc			1478

<210> 338
 <211> 1125
 <212> DNA
 <213> Homo sapiens

<400> 338						
cggcacgagg	tgatgatggc	ctgttttggg	gtgtgtctga	gactgggatt	gcatttgggg	60
tttcccgtgt	gcttgggatg	ctagagggtc	acctgcagga	ggcctggggc	cggcgagaaa	120
tctcctgtga	tgccctgtga	aatggcctgt	ctcctcccc	atcagggccc	accgaaagct	180
caggggagca	cagaagccca	tggaagccca	gggagatgtc	cctggggcag	acactaaggc	240
aggtgttgaa	gacaagctgc	ttgtcaagaa	gcatttcccg	gcaagagagg	ggcaagtcgg	300
gggctccaac	tggttacagc	ctgggtgcag	ttataagccc	ctttggctta	cttggtagaa	360
gatggctact	tggtgttacc	tcacttaaag	atgttttcta	ccacactagg	tctctggggc	420
cttgtgcttc	ctgtgggtgg	ggtgagggcc	aaaggctatg	gtttcctgcc	tccaggagaa	480
tggagagaaa	gggcttccag	gccccctcaa	gcttggggaa	ggacgtggca	tccaagctga	540
gccagagggg	actgctgctg	gcctcccttc	atttctgtgg	accttggagg	ctttggcttt	600
gtggcagggc	ctccccaggc	agctctggga	cctaggagtt	tgcttctgat	agggtcagct	660
ttcccatttc	ccttcaatgc	ttgggaacct	tctcccttag	cttcacactt	gccatttcaa	720
gccctgctgg	gacctgtgtg	cttggctgga	atccaggact	gtattttcat	ggagaagaac	780
ctgcagattc	ttccatcctc	agctggccat	ggcccacagc	tctgcatctg	catctgagct	840
tctcaggact	cctggagcat	ggggggaatg	gggcggggcc	actgctctgt	gctgacgggc	900
tccgtctcgg	agattcttgt	cctgtttttt	tttctgttgt	tttttttttg	ctgggtgctgg	960
ggacaagcct	gtgcttgcca	aagctccag	gccaagtttg	ggggctgggtg	tttgggggtg	1020
ggtttggggg	tcaggatgct	gcagtctgtg	caataataaa	cccgcatctg	ctcaaaaaaa	1080
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaa		1125

<210> 339
 <211> 1157
 <212> DNA
 <213> Homo sapiens

<400> 339						
cccccggtct	gcaggaattc	ggcacgagaa	tgtggctcct	gtgtgtggcg	ttggcggtct	60
tggcatgggg	cttctctctg	gtttgggact	cctcagaacg	aatgaagagt	cgaggagcagg	120
gaggacggct	gggagccgaa	agccggaccc	tgctgggtcat	agcgcaccct	gatgatgaag	180
ccatgttttt	tgctcccaca	gtgctaggct	tggccgcct	aaggcactgg	gtgtacctgc	240
tttgcttctc	tgcaggaaat	tactacaatc	aaggagagac	tcgtaagaaa	gaacttttgc	300
agagctgtga	tgttttgggg	attccactct	ccagtgtaat	gattattgac	aacagggatt	360
tcccagatga	cccaggcatg	cagtgggaca	cagagcacgt	ggccagagtc	ctccttcagc	420
acatagaagt	gaatggcatc	aatctgggtg	tgacttttca	tgaggggga	gtaagtggcc	480
acagcaatca	cattgtctctg	tatgcagctg	tgagggccct	gcaactcagaa	gggaagttac	540
ctaaaggggtg	ctctgtgctc	acgcttcagt	ctgtgaatgt	gctgcgcaag	tacatctccc	600
ttctggatct	gcccttgtct	ctgcttcata	cgcaggatgt	cctcttctgt	ctcaacagca	660
aagaagtggc	acaggccaag	aaagccatgt	cctgccaccg	cagccagctc	ctctgggtcc	720
gccgcctcta	cattatcttc	tcccggtaca	tgagaatcaa	ctcactgagc	ttcctctgaa	780

gccttgaagg	gttttcagat	ccaaggaaca	aaggggaaaa	tagacaaagg	agtgcagagg	840
acctggcctg	gcactggcct	atttacctga	gctcaaggag	atccccgctg	gagcagcctc	900
tgcaaaaggg	agccccatgta	ggccaggggc	tgtccaaact	ccagcttctt	cccctgggaa	960
aaaacccaaa	gaacccaaaa	caaaccaccc	caaggataat	aatagctaca	ctgctagctt	1020
ctcaagttct	tgtgaaaaac	aatttacata	atgacacagt	agatgtggaa	cacctagccc	1080
agtgcctggg	caggtcccta	ttatcataaa	tgaacataaa	agtgtcttaa	aaacaaaaaa	1140
aaaaaaaaaa	aactcga					1157

<210> 340

<211> 902

<212> DNA

<213> Homo sapiens

<400> 340

ggcacgagct	ctgaaatatg	aaatgcagct	attggatgaa	ctcccaatga	tatacagctg	60
ttgcatatct	gtgtactgca	tgtttgaatg	tttcaagatc	aagaactcag	taaactacca	120
tctgcttttt	accttagttc	tattcagttt	aatagtaacc	acagtttacc	ttaaggtaaa	180
agagccaata	ttccatcagg	taactgctac	gtgagcttca	ggtataaaat	tttaaaccac	240
gtatcctcca	gaaagacttt	ctactgtgtc	atgtatggaa	tgttggctct	tacattagta	300
cttcgatcta	tttatattgt	tacatgggtt	tatccatggc	ttagaggact	gggttatata	360
tcattgggta	tatttttatt	gggattttta	ttttggaata	tagataacat	attttgtgag	420
tcactgagga	acttttcgaa	gaaggtagca	cctatcatag	gtattaccac	acaatttcat	480
gcatgggtgg	atatttttaac	tggccttggg	tcctatcttc	acatcctttt	cagtttgtat	540
acaagaacac	tttacctgag	atataggcca	aaagtgaagt	ttctcttttg	aatctggcca	600
gtgatcctgt	ttgagcctct	caggaagcat	tgatgaatca	ttccaccaag	aaaacaaaca	660
agcacctacc	atagacctgg	cagaataaat	aaggaaatcc	ttaaagatct	acaagttcaa	720
atatgtcatg	accatcacag	cagaggagtg	actttctgac	taatgctgcc	accacacacg	780
agaataagga	gtagggcctg	ctgggtggtt	agctcatggc	tttatcttat	ttgtccccct	840
cctcctttca	cgctccagtt	tataaagaaa	cagagatgaa	aaaaaaaaaa	aaaaaaaaaa	900
aa						902

<210> 341

<211> 1552

<212> DNA

<213> Homo sapiens

<400> 341

ggcacgagaa	acagaaatga	tactaatatc	ggtgattcct	tccttttttc	ctgtaataag	60
tgctgtgcag	acaacatatg	agcagtgtcg	ataaatgtaa	atgtattttt	catagctcat	120
taagaatcag	tttcagaaag	agatgtctgc	ttatttttgc	acttgaagaa	tccctgtcaa	180
acagtccctt	tgaggaagta	caagaggctg	tctctattgt	gacctcagga	atggctgtga	240
cagtgtcgtg	agcagtcctt	ttcctgtggc	acagatctga	actttgtgtt	gcagaaaaat	300
cttggtctca	agttagccaa	gatgccccct	gagcatcagc	atcacaactt	catcctccta	360
tcttgaagtt	catgtttatg	tgactttaat	gaaatcatag	aacactgttt	cttcgtgaac	420
aatgacgagg	gagaggaaaa	aacttttattg	aaaaataaaa	aggcaggtaa	tttagatgaa	480
aatatgttac	ccatgagggt	ttgtttttgc	tttttgtttt	tgtttttgag	aaacagaatc	540
tcgctctgtc	gtccaggctg	gagtgcacgc	gcatgatctt	ggctcactgc	aacctccgcc	600
tcccgggttc	aagcgattct	cctcagcttc	ccaagtgttg	gtactacagg	catgcgccac	660
cacaaccagc	taattttttg	attttttagta	gagatggggt	ttcactatac	gttggccagg	720
ctggctctca	actcctgacc	taagggtgatc	cttctgcctt	gggctcccaa	agtgtctgga	780
ttacaggcat	gagccacctt	gcctggccct	acccatgagc	cttgactaaa	acattcttct	840
atctgtagaa	aagcccaaaa	gaacttttcc	agattcaaaa	aacttggcac	tttgtaatgg	900
taatgtttac	attaagtaaa	aaaaaaaaaa	aaaaacctgg	cgagaaggga	acggagtttt	960
catcaggtag	attgggtttt	gtgcggccgt	cctccaccgt	ttcctccagg	acagcaccta	1020
gtcgtggccg	gaggagtctc	agagctgtca	gaaagaataa	gactgatttt	atgggaaaaat	1080
taagcagatg	ctccagtttg	agaaaacctg	atctgcgatc	tgtttgtggt	accagcatca	1140
agatgattta	tggttaataa	atataaaacc	aaggaaaata	acctaagtc	tgaaaaagac	1200
cagaatcgaa	gtttcctgat	tcataatttt	atgttttgaa	atttatactc	caggctgggt	1260
gcagtggctt	gtgcctgtaa	tcccagcaact	ttgggaggcc	gaggcggccg	gattgcctga	1320
agtcagaagt	tcgagaccag	cctgaccaac	atgggtgaaac	cctgtctcta	cttaaaaaata	1380
caaaagagct	gggcatggag	gtgggtgcgcg	cctgtaacct	tagctactcg	ggaggctgag	1440

gcctaagatt cttgaaccca ggaggcagag gttgtagtga gccgggatca cgccactgca 1500
tctagcctgg gcgacagaga gagagactgt ctaaaaaaaaa aaaaaaaaga aa 1552

<210> 342
<211> 897
<212> DNA
<213> Homo sapiens

<400> 342
ggcacgaggg acaatgaaga gtatgaaatt gaagtttttc tccattgaaa acattcaggg 60
aggactttga ttaaaacttt ttgtaaaaag tttcagtagt gttgacttga ggatgatata 120
aagctgtata ctatgttagt tagatccttg cttctcaggt ctgggaaaca tcttcatata 180
tcttccatgc acaggtgtac tcatgtgcgt gtttgtatat gagcttatgc ttctctctct 240
ggtgtttctt cctcattggg ctttaccttc tcttccttac ttttcctttg ccctcatag 300
caatactgtt aagccagata tttacttctt atgtggatca aatagtctta tatttcctgt 360
ggacaagaga tatgttttct actcatttat ttctctaatt gtgaatagga aacagctaga 420
aaattggaat accttcagct tatgtggctg ttgattgact ttgtgattca gtgggccttg 480
atatattaga aaaaagtctt ttcttttctc ttaaaattag tataaaggaa cgcatgaact 540
cagtatatga ccttagagac agaaagaaaa aaaaattatg taacagccct ttgagagtga 600
ggaaacattg gcaactgaagg taaaagcaac ttgtctggag ccatataaca agtggcagag 660
ccaatagtag aactccagcc ttctggagag ttcttgctcc cagatcttgc tctctacatg 720
agatgtggac tatgtgtctc ttcaggttgt cacctggttc tttcaagttg ctgagttctt 780
ccttggggaa gtgcagaagg gaattaatag agaggatcca tttcgtagtc tctgccactt 840
tttgtgctta tctccctctc atttcagtgt gtcttatttg gcaaaaaaaa aaaaaaa 897

<210> 343
<211> 1767
<212> DNA
<213> Homo sapiens

<400> 343
cggcacgagc gcgggtgcgt cataggccga acaaccaaac agaaaagtgtt aataaacagc 60
ggacggaggg gccggcggtg gcggagcgga gcaagcaggg gttcggcggc attacctgta 120
cccattcacc ggcggtctacc ggcggcggcg gcgagctgtc aggcggagag acccgccgcc 180
aggaatgaat ctgaagtctg ctgcagtaaa acacagaagg ctttaaaatg ttttcttgca 240
taaaattcaa aacttttaag tagctgctta tgagaatagg gaaggcagaa agctaattgtc 300
tgtctcaaga tacaggacag ctgtttgtct atcaacctca actgtgtgtg caactgagga 360
acatggctca agaaactaat cacagccaag tgcctatget ttgttccact ggctgtggat 420
tttatggaaa cctcgttaca aatggcatgt gttcagtagt ctataaagaa catcttcaaa 480
gacagaatag tagtaattgg agaataagcc cacctgcaac ctctgtcagt agtctgtctg 540
aatctttacc agttcaatgc acagatggca gtgtgccaga agcccagtca gcattagact 600
ctacatcttc atctatgcag cccagccctg tatcaaatca gtcactttta tcagaatctg 660
tagcatcttc tcaattggac agtacatctg tggacaaagc agtacctgaa acagaagatg 720
tgcaggcttc agtatcagac acagcacagc agccatctga agagcaaagc aagtctcttg 780
aaaaaccgaa acaaaaaaag aatcgctgtt tcatgtgcag gaagaaagtg ggacttactg 840
ggtttgaatg ccggtgtgga aatgtttact gtggtgtaca ccgttactca gatgtacaca 900
attgctctta caattacaaa gccgatgctg ctgagaaaaa cagaaaagaa aatccagtag 960
ttgttggtga aaagatccaa aagatttgaa ctctgtctgg aatacaaaat tcttgagcat 1020
ctgcaaaacta aaaattgact tgagggtttt tttttcctag tcattgggaa tgtagagcag 1080
tgtatcttgc atgtcatcgg aagaatagat ttttgttttg gttttgtttt gaaaatgact 1140
ctgaacattt atttccattg caatttctgt ggctgaggag acttaaaact tacaagtatt 1200
atccttttaa gatcatttta attttagttg agtgcagagg gcttttataa caaacgtgca 1260
gaaattttgg agggctgtga tttttccagt attaaacatg catgcattaa tcttgcagtt 1320
tattttctca ttgtgtatgt atatatcgct tttctctgca gcacgatttc tcttttgata 1380
atgcccttta gggcacaact agttatcatt aactgaatgt atcttaatca ttatggctgc 1440
ttctgttttt tcattaacaa aggttattca tatgttagca tatagtttct ttgcaccac 1500
tatttatgtc tgaatcattt gtcacaagag agtgtgtgct gatgagattg taagtttctg 1560
tgtttaaact tttttttgag cgagggaaga aaaagctgta tgcatttcat tgctgtctac 1620
aggtttcttt cagattatgt tcatgggttt gtgtgtatag aatatgaaga atgatctgaa 1680
gtaattgtgc tgtatttatg tttattcacc agtctttgat taaataaaaa ggaaaaccag 1740
aaaaaaaaaa aaaaaaaaaa aaaaaaa 1767

<210> 344
 <211> 1129
 <212> DNA
 <213> Homo sapiens

<400> 344
 ggcacgagcc taaatatacg cacacctgag gttgtcttta taggagcttt atgggttgcaa 60
 gttttgtgta taatctttta tcatttttgag ttgattattg tgtatctagt accataagag 120
 tcctgtatta ttcttttgca tatggatata tagttttgga aatcttcccc gttgtgtcat 180
 tttgggtggtg ttttgaaaaa tgtgttcatt ccatataaat ttttgtttat tatcgagcac 240
 attcattttg ctcaactggc tgtgtttctc tgtgtacgcc agtaacatat gggtttggtta 300
 actacagatt ttcattttaa tagaactcag ggaatgtgac acatcccata tggtttggtat 360
 ttctcagaat aactttggaa attcaggggtg tttcacattt ccacataaat tttggcattg 420
 ttctttatat ttcttaaaac actattttgtc atatactaaa tgtatacaat taaaagggtac 480
 aaggaagatt ttgatacgtg tatatgttga gtaatgataa aatcagggtta ttttagcatct 540
 ctctcatctca tatagttatt atttttgagt ggtaacaaca ttcagaatct ttccttctag 600
 ttactttgaa acatatggta cattttgtgt aaggctagtc accctgctgt ggaatagaag 660
 gccagaattg atcagtctca tctgagagta actttgtacc catcactgat tccttctgag 720
 actgcctcca ctccccagc agcctctggt ttcttcatgt ggctgcagat ggcaggattt 780
 cccaaaggtt tctggctgaa acataattccg tgggtgatct gtacagcagt ttcctcatcc 840
 ctgcagctgt gtttgaacag gtccaacagt atggctccaa aggatgaaat ttcattctga 900
 tttctgtggt gaagactatt ctctttgtgt atgtccacca cagttacttt atcccttcat 960
 ctgtggatgg gcagtctcgc tgtattgccc aggctggagt gcagtggcat gatctcagct 1020
 cactgcaagc tctgttctct ggggttcacgc cattctcctg cctcagcctc ctgagtagct 1080
 gggattacag gcacccgcca ccacgcccag gaaaaaaaaa aaaaaaaaaa 1129

<210> 345
 <211> 1284
 <212> DNA
 <213> Homo sapiens

<400> 345
 ggcacgagac tcgtgccgaa ttccggcacga gcaacagcaa aagcctagtg cattggggaga 60
 tgtgcaacct ccctgaaaat cttttctgtt tctggagtac ttcaggggtg gcctctggcc 120
 ccagagcctt tgccacagtg ctcccaccag cccccacctc atccgtctgt ttgcagagcc 180
 tcatctacag gtccccacgc tgccttcttt actcactctg cgcttggccg ttttgttatt 240
 tggcttagtc tacattgggc ggaagtctgt gtgcacagag tgggtgttcc ttcgagcccc 300
 ttccactcag agggccacac ccagcgatgc cagtgaaggt ggcacagcct ctcttcagtt 360
 tctcctgact gtgatctcac tggggtagaa ttcccctgag agaatccctc actcacggct 420
 ccctttgcca gagtcagttc aatcaggtct gatgtgagca atttacacac ttgtctcaga 480
 aagtccttca gggttttagg aggactgcag gggggcatcc gctgcagact cagcctttct 540
 ctgcagccat cctgcagtgg ggggtgagcg gcacaggctg agaactgctc ttgggtgggtg 600
 gaagcaggtg tcacgggtgca agtctcccc tgcacccctc cccagcttg agccgtgtca 660
 cccccctctc cctccagcat gggcctgtgt ctcaggctct ctggaagggt gccctgcccc 720
 ggaccctctt gcagggtgtc tggtttgact tggaactaga tggccatctt tccaggcttt 780
 ggtggcccaa gagcagctct ggtggatgga agtggctgtc ccctcctctc cagccccctgc 840
 ccaccactg gtggaggtgc taactagcag ggacgtggca taggatggga gctgggcgtg 900
 aggtgcttgg ggtccattct ttgtccctca gcttctcaga gtccggccag cccttgtgtt 960
 cccgtgcccc acactttctt cctccccact gcagtgagtc aatagtccag ggtggggcct 1020
 ggcctccctg ccctgattgg ggactcagga ggtgaggcct gcggggcttc ctgccccctc 1080
 cttgcccacc tgcttgcctc cgggcagcac gggagggaga gcagggtgag cacgcttggt 1140
 ggtttcagat gcactttctg cttgccattg mccgtatctg tgcgttcctt catcctggtc 1200
 ctggctttat ggaacacat gtttttagca tgtttttaa taaaaacgga taaagtgtca 1260
 aaaaaaaaaa aaaaaaaaaa aaaa 1284

<210> 346
 <211> 1911
 <212> DNA
 <213> Homo sapiens

tggtggctct	cgccgggcag	cttggagaag	gcgcaatact	ctccagctcc	accggtaccg	720
ctaataataag	taaagtttgt	aaaattcata	cttaataaac	aatttaggac	agtcaaaaaa	780
aaaaaaaaaa	aanctcgngg	ggggggcccg	gtmcccattt	sccecaaaaa	ggg	833

<210> 348
 <211> 2927
 <212> DNA
 <213> Homo sapiens

<400> 348						
gctttttcat	aatctttcca	gagtcattct	agtgggattt	ggggaagcaa	cagggctgtg	60
tggggtaacc	tgccaccttt	aagtgggaark	cagaaatgga	gcaagagcca	caaaatggag	120
aacctgctga	aattaagatc	atcagagaag	catataagaa	ggccttttta	tttgtaaca	180
aaggtctgaa	tacagatgaa	ttaggtcaga	aggaagaagc	aaagaactac	tataagcaag	240
gaataggaca	cctgctcaga	gggatcagca	tttcatcaaa	agagtctgaa	cacacaggtc	300
ctgggtggga	atctgctaga	cagatgcaac	agaaaatgaa	agaaactcta	cagaatgtac	360
gcaccaggct	ggaaattcta	gagaagggtc	ttgccacttc	tctgcagaat	gatcttcagg	420
aggtgcccaa	gttatatcca	gaatttccac	ctaaagacat	gtgtgaaaaa	ttaccagagc	480
ctcagtcctt	tagttcagct	cctcagcatg	ctgaagtaaa	tggaaacacc	tcaactccaa	540
gtgcaggggc	agttgctgca	cctgcttctc	tgtctttacc	atcacaaagt	tgtccagcag	600
aaagtcctcc	tgcttatact	cctcaagctg	ctgaagggtca	ctacactgta	tcctatggaa	660
cagattcttg	ggagttttca	tcagttggag	aggagtttta	taggaatcat	tctcagccac	720
cgctcttga	gaccttaggg	ctggatgcag	atgaattgat	tttgatacca	aatggagtac	780
agattttttt	tgtaaactct	gcaggggagg	ttagtgcacc	ttcgtatcct	gggtaccttc	840
gaattgtgag	gtttttggat	aattctctcg	atacggttct	aaaccgtcct	cccgggtttc	900
ttcagggttg	tgactgggta	tatcctctag	ttcctgatag	atctccgggt	ctgaaatgta	960
ctgcgggagc	ctacatgttt	cctgatacaa	tgctacaagc	agcaggatgc	tttgtggggg	1020
tcgtcctgtc	ctctgagtta	ccagaggatg	atagagagct	ctttgaggat	ctgttaaggc	1080
aaatgtctga	ccttcggctc	caggccaact	ggaacagagc	agaagaagaa	aatgaattcc	1140
aaatccctgg	aagaactaga	ccctcctctg	accaactaaa	agaagcctct	ggcactgatg	1200
tgaacagtt	ggaccaaggc	aataaggatg	tacgtcataa	aggaaaacgt	ggaaaaaggg	1260
ctaaagatac	ttcaagtga	gaagttaacc	tgagtcacat	tgtaccatgt	gagccagttc	1320
cagaagaaaa	gcaaaaagaa	ttacctgaat	ggagtgaaaa	agtggctcac	aacattttgt	1380
caggtgcttc	ctgggtgagt	tgggggttag	tcaaagggtg	tgagattact	ggtaaggcaa	1440
tccagaaagg	tgcttctaaa	ctccgagagc	ggattcaacc	agaagaaaaa	cccgtggaag	1500
ttagtccagc	tgtcaccaag	ggactttata	tagcgaagca	agctacagga	ggagcagcaa	1560
aagtcagtca	gttcctgggt	gatggagttt	gcactgtagc	aaattgcgtt	ggaaaagaac	1620
tagctccaca	tgtaagaag	catggaagca	aacttggttc	agaatctctt	aaaaaagaca	1680
aagatgggaa	atctcctctg	gatgggtgta	tggttgtagc	agcaagtagt	gttcaaggat	1740
tttcaactgt	ctggcaagga	ttggaatgtg	cagctaaatg	catcgttaac	aatgtttcag	1800
cagaaactgt	acaaactgtc	agatacaaat	acggatataa	tgaggagaa	gctaccacc	1860
atgcggtgga	ttctgcgggc	aatgttggcg	taactgccta	caatattaac	aacattggta	1920
tcaaagcaat	ggtgaagaaa	actgcaacac	aaacaggaca	cactctcctt	gaggactatc	1980
agatagttga	taattctcag	agggaaaatc	aagaaggagc	agcaaatgtc	aacgtgagag	2040
gggagaagga	tgagcagacg	aaggaaagta	aggaggcaaa	gaagaaagat	aatgatgaa	2100
gtgctgggaa	tcacttatata	caaagcctta	tgaatgggat	gaaattttgt	taaataggca	2160
aatgtggaat	tcctcacaga	ttaaccagta	tttttttaaat	gtattcattc	ctacaaatta	2220
actttcataa	attttatggc	atgtcttcta	tttaaaagga	aaagaataag	tattcttgca	2280
tctggcctta	gaaatgtgaa	gttatattct	caagtttatt	tttttccaag	tgtagctaaa	2340
atatttttgc	aggtaaaata	aagctgatag	tacatgtgtt	gttcaaacct	tgttaaacct	2400
aatattgaac	tattttttata	tctgctgtct	ttcagaaggc	aaataggaaa	ctatatattt	2460
gcttaaaaaat	tggcatttag	taaccttaat	tctttttata	gaaggaaatga	cttaaagtat	2520
tgtccctctc	ttttgcaacta	attgtggatt	tttttagatg	cttctcaaaa	ttttcagtg	2580
gtaagctaaa	caaaaactaa	aactaagaat	tctcaaaaaa	acttggtcaa	aacagggaaa	2640
gactgatgaa	aagtaaaatg	gactactttt	gtaacttacc	tgtttggttag	gaaatggaa	2700
ggtctctttg	atttaaaatg	aataaaaaat	gattattacg	tcttttgat	tgagactgta	2760
ttgttatgag	cctaggaat	ttgggaacat	gattgtattg	tattaaaaat	cgaagtgtat	2820
attatcagct	taattggatt	aaaaaagtac	ttcaagaaat	taaaaaaaa	aaaaaaaata	2880
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaggg	gggggggc		2927

<210> 349

<211> 1249
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1138)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1196)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1202)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1225)
 <223> n equals a,t,g, or c

<400> 349
 acgtcccgcg cgctcgccggc cgcggagcag cgcagggagc caggcgggct gccggcgggt 60
 gtgaagaaaa aaatgacact ccaatgggct gcagtggcaa cctttcttta tgccgaaata 120
 ggactcattt taatcttctg cctacctttt attcctctc agagatggca gaagattttt 180
 tcatttaatg tctggggtaa aattgcaact ttttggaaac aggccttctc taccattatc 240
 atcctattga ttgttctatt tctagatgct gtgagagaag taaggaaata ttcctcagtt 300
 cataccattg agaagagctc caccagcaga cctgatgcct atgaacacac acagatgaaa 360
 ctttttaggt ctcaaagaaa tctttacatt tctggatttt ccctattttt ttggctagtt 420
 ttgagacgtc tggttacgct tattactcaa ctggcaaaag aactgtcaaa caaagggtgta 480
 cttaaaactc aagcagaaaa tactaacaag gctgccaaaa aatttatgga agaaaacgaa 540
 aaactaaaaa ggattttgaa aagccatggt aaagatgaag aatgtgtttt ggaagcagaa 600
 aataaaaaac tagtagaaga ccaggagaaa ctgaaaactg aattaaggaa gacttcagat 660
 gccctttcta aggcacaaaa tgatgtgatg gaaatgaaga tgcagtcaga gagactttcg 720
 aaagaatatg atcaactcct gaaagaacac tctgaacttc aggatcgttt agaaagaggc 780
 aacaagaaaa gactgtgaac ttataaaaag acacttgcaa tatactgtgt caaaatgata 840
 attttgttat gttagcctct agaaaattta agttcagaaa aatgcactat gaccggttcg 900
 taattttttt aatgccacac ataggttgta ttgtaatggc attatcaaaa tatttgatga 960
 tgtttcagat atattgcaaa gtctgtattc cagctcttaa gaaaaatata agcatgttaa 1020
 ataccatatt tacatattga taatgtcatt ggtatatggt ggctgtttac caataaaagg 1080
 aaaaaattca ttaaccggtt gcttccaaaa ttaggaagwt ytamgttgca tgaaaccntt 1140
 aataggcctt ggaaagcttt ggattaaggt tttccaggta attaataacc cctttnaatt 1200
 cnggatggat ggtgtgtttg gaaanagggt ttccatttcc ggccaattt 1249

<210> 350
 <211> 1129
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (564)
 <223> n equals a,t,g, or c

<400> 350
 gggtcgaccc acgcgtccgc aaaggttcat gctattcgat agatgctttc aaaatgatga 60
 gtgggaaatg taactttgtc atcttgcaga gcctacaatg caaacatttt ttccgccccca 120
 tgtacagttt catttacata gtgttgtcaa ggaataagtg atttgtttca cttaagtgat 180

ttttccaggt	aattgaagct	tacctctttg	tgcacacatt	attcttttgc	taaactttct	240
ttgatgaaaa	catggcacak	ggttctttcc	tttttttttg	cttggtacat	ataaatgtgg	300
ctacatcttt	tcttgacttg	gggttatcat	gataaagatt	gctttgttct	gtgccgtaat	360
cctgttattg	acagctgaat	tgtgtgggat	tgagagcctg	tatgtgaata	gtcacagatc	420
catattcttt	tagagttacc	attattacta	ataatatagc	ycctctgagt	cattagcaaa	480
tcccaggcag	gatgctaaga	attcatatac	attataatct	tggctaaacc	atccacccca	540
ctccaagaaa	tgatcattat	tatnctctct	actttacagg	taaaaattga	agtttaaggg	600
ataagtagta	agtggttagag	ttgagatttg	catccatgtc	tctctaactg	caagatgcct	660
gttgccagtt	atacttcttc	tatttctcct	ctctgcccct	ctttgggtat	ttctgtctgt	720
ccggttgctt	taaaagcctt	tgcccaggtg	agggcccag	attaggtctg	tgcctatatt	780
gtggaaatta	ttggtatggt	tttcgttaag	tggagttctg	aaggcatttt	tgctgatttc	840
tgggttccca	gacatctgca	cggttgccgt	ttctagaagt	ctaacctgtg	aattcatcac	900
tgtgtatgct	aaggcttttg	gagggattat	aggattttct	gcattatgat	taagcagcat	960
aatcaagaaa	cttgacgtga	gaggaaaagc	tggcaattct	gtaatgcaga	agttggcaga	1020
ycttttctgt	ggagggccag	atactaaacg	tcttagttca	ttttgtgttg	ctataaaggt	1080
atacctgagg	ctgggtaatt	tattaaaaaa	aaaaaaaaag	ggcggccgc		1129

<210> 351

<211> 2587

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1765)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1821)

<223> n equals a,t,g, or c

<400> 351

ggctcttgcc	ctctcaagtt	gctcttgaat	gttgattcaa	ctcattagga	catacttgga	60
tgatgaatta	gaaggagcat	ctttgccctc	tacttacaga	tcctaggaac	aatttgtgga	120
attatcagta	agcaatatct	gtaacagata	aaatgtctgc	tttccctttg	cccctcttag	180
cctatgacat	gccacatcca	atttgtcttc	gttccaaactg	tgagaggtct	taatttcac	240
attctggcct	tttgacgtta	aatattctcc	aagggatatg	atctatgggg	agaggactga	300
tagtggaact	aatctttcaa	gggtctgctt	aagcaattgt	agataacata	ggagaagaaa	360
ctctggaaac	aattatgatt	atcctagtct	tgcccctgtg	gaaattcaat	ccgaaaccct	420
tcatgttttt	gcttctctct	tctctacatg	gatggaatat	gttatacttt	tttgagctga	480
aaaatctaaa	taattagaaa	aagacaaagt	tgtaatgagt	tttctgttta	aacttatagg	540
accctttcta	ataaaaagtg	tattttaatc	attgaatcgt	tagttaactg	ctttgtatgg	600
ttatgtcttg	tctctcttta	atccagggac	tgcaagcaac	taggcaaaaa	actaacaaaa	660
aaaccaatgt	tttataagag	tggttctcaa	acttttaaagt	gctgattaaa	gcacagattg	720
cccaggcctc	accctcagta	gatgggtatg	gggcccgaag	actttcaaca	ggagatgctg	780
ctgstgcagc	ttgtctaaga	actacacttg	gaaaattact	aatttgtgta	ataaatacct	840
gaccatttgg	aatccttaga	ggatggaaat	attttghtat	gctgtgtgca	agatttgata	900
tagaaaaact	tgggttcaag	tggcaattca	gcagattaca	agaggtgaaa	caactgagtt	960
tctgagactc	agttttatta	tctgaaagtc	aggaatgaaa	ataatgccta	tgtggcagaa	1020
ctgctataaa	gatcagacaa	ggctcgtgat	gggaaaggcc	ttggtaaatg	gaaaagcaca	1080
atctaagtg	aacttattct	agatgtgctt	tcaataggca	agttttatat	acctaagact	1140
aaaagcttgc	attttaatcc	ctgggattga	aatctttcac	catcatcccc	atgatggtaa	1200
taacaacaat	aacaatacta	gtgcactatt	tattgtattt	tctgcaatgg	gcacttaata	1260
tgttttgatt	atatattttc	aaaacctcat	aaaatctatt	ttatcatgta	tattatttgc	1320
ttacctaaga	gtgtactgga	cagaatttaa	atttttcttg	agggcttagg	gcagtgcagt	1380
tcttaggggt	ctgtctatat	ctgtctatat	atttaaaaat	atttaaaaat	gtgttatatg	1440
tgatacatct	ataacggaat	atttttttgc	aaaaagaaa	gagctaccaa	gctataaaaa	1500
gatatagagg	aaccttggat	gcmtttttcy	aagttaaaga	agccaatctg	aaaaggctat	1560
aaaactgtat	gatttccacc	atatgacact	ctggaaaagg	caaaactatg	gagatattaa	1620
aaagatcagt	gkttktcagg	ggttaaaggg	gaggaaagga	taaatagsca	gagcacagat	1680

gtttaggsca	gtgaattatt	ctgtatgatt	catattgggtg	gatccatggt	cattatacat	1740
ttgtcaaaac	tcatagagtg	tgcancatca	agagtgaact	ctaagtataa	ctatggacta	1800
tggttgataa	tgatgtgtca	ncataggtac	attaattata	acaaatatac	cactctggtg	1860
cccagtgtta	atactggggg	aactgatgtg	tgtagaggac	aatgggtatat	gggaactttc	1920
tgtaattttt	ggaactgaaa	actgctctta	aaagaataaa	gtgtattaaa	aaggatcaca	1980
ccaaaaaatg	aattgcaaaa	ttcatgacct	catgtgaaag	atagtgaactg	tggtagatag	2040
aataatggcc	cctaaagatg	accacatcct	agtccttgga	acctgtgaat	ctgctacttt	2100
acttggtaaa	aggggctcta	cagatatgat	taagttaagg	atthttgagat	gggaagggtca	2160
tcctggattr	ctragtggtg	tgcagtgtaa	tcacagggtc	ctttaaagat	ggaggcagac	2220
tgtcagagga	attggcacaa	aagcagaggt	cacacacaca	cacgggggga	tagagagaga	2280
gagagagaga	ggaagatggt	acactgctgg	ctttaaagat	ggaggaagtg	gctattaagt	2340
caagcaaggc	atgcaacctc	aaaagctcca	aaaaacaagg	aatgacctt	cagaaggaat	2400
tcaaccttat	attccttgct	gacccatttt	agacttttga	ctatctgaac	tttaagttaa	2460
taaagtgtcg	ttgttttaag	ccaataaatt	ggtgggttatt	tgttacatca	gcaataggaa	2520
actgggataa	tgatttttca	atgaaaattt	agacaagatt	agaaaaaaaa	aaaaaaaaaa	2580
actcgag						2587

<210> 352
 <211> 3097
 <212> DNA
 <213> Homo sapiens

<400> 352						
ccagcttgct	cgcactcggc	tgtgcggcgg	ggcaggcatg	ggagccgcgc	gctctctccc	60
ggcgccca	cctgtctgag	cggcgccagc	agccgcggcc	cgggcgggct	gctcggcgcg	120
gaacagtgct	cggcatggca	gggattccag	ggctcctctt	ccttctcttc	tttctgctct	180
gtgctgttg	gcaagtgage	ccttacagtg	ccccctggaa	accacttg	cctgcatacc	240
gcctccctgt	cgtcttgccc	cagtctaccc	tcaatttagc	caagccagac	tttgagccg	300
aagccaaatt	agaagtatct	tcttcatgtg	gaccccagtg	tcataaggga	actccactgc	360
ccacttacga	agaggccaag	caataatctgt	cttatgaaac	ttgctctacc	agcaatgcga	420
tgcccagcca	ggggccagcg	ggctctgggg	ctatgtgagg	atgtggaaga	gacagcagca	480
gaagtgggag	cgaaaaatta	ttggcatttt	ttcaggggac	cagtgggtgg	acatgaatgg	540
ttccccacag	gatttcaacg	tggtctgcag	aatcactcct	ctcaaataatg	cccagatttg	600
ctattggatt	aaaggaaact	acctggattg	tagggagggg	tgacacagtg	ttccctcctg	660
gcagcaatta	agggctcttca	tgttcttatt	ttaggagagg	ccaaattggt	ttttgtcatt	720
ggcgtgcaca	cgtgtgtgtg	tgtgtgtgtg	tgtgtgtgtaag	gtgtcttata	atcttttacc	780
tatttcttac	aattgcaaga	tgactggctt	tactatttga	aaactggttt	gtgtatcata	840
tcataatatca	tttaagcagt	ttgaaggcat	acttttgcac	agaaataaaa	aaaatactga	900
tttggggcaa	tgaggaatat	ttgacaatta	agttaatctt	cacgtttttg	caaactttga	960
tttttatttc	atctgaactt	gtttcaaaga	tttatattaa	atatttggca	tacaagagat	1020
atgaattctt	atatgtgtgc	atgtgtgttt	tcttctgaga	ttcatcttgg	tggtgggttt	1080
ttttgttttt	tttaattcagt	gcctgatctt	taatgcttcc	ataaggcagt	gttcccattt	1140
aggaactttg	acagcatttg	ttaggcagaa	tattttggat	ttggaggcat	ttgcatggta	1200
gtctttgaac	agtaaaatga	tgtgttgact	atactgatac	acataataaa	ctataacctta	1260
tagtaaacca	gtatcccaag	ctgctttttag	ttccaaaaat	agtttctttt	ccaaagggtg	1320
ttgctctact	ttgttaggaag	tctttgcata	tgccctccc	aacttttaag	tcataaccaga	1380
gtggccaaga	gtgtttatcc	caacccttcc	atttaacagg	atttctactca	catttcttga	1440
actagctatt	tttcagaaga	caataatcag	ggcttaatta	gaacaggctg	tatttctctc	1500
cagcaaacag	ttgtggccac	actaaaaaca	atcatagcat	tttaccctg	gattatagca	1560
catctcatgt	tttatcattt	ggatggagta	atttaaaatg	aattaaattc	cagagaacaa	1620
tggaagcatt	gcctgtcaga	tgtcacacaa	gaataaccac	ttgtttggag	cctggcacag	1680
tcctccagcc	tgatcaaaaa	ttattctgca	tagttttcag	tgtgctttct	gggagctatg	1740
tacttcttca	atthggaaac	ttttctctct	catttatagt	gaaaatactt	ggaagttact	1800
ttaagaaaac	cagtgtggcc	tttttccctc	tagcttttaa	agggccgctt	ttgctggaat	1860
gctctaggtt	atagataaac	aattaggtat	aatagcaaaa	atgaaaattg	gaagaatgca	1920
aataggatca	gaatcatgcc	ttccaataaa	ggcctttaca	catgttttat	caatatgatt	1980
atcaaatcac	agcatataca	gaaaataact	ggacttattg	tatgttttta	ttttatggct	2040
ctcggcctaa	gcactttttt	ctaaatgtat	cggagaaaaa	atcaaatgga	ctacaagcac	2100
gtgtttgctg	tgcttgcacc	ccaggtaaac	ctgcattgta	gcaatttgta	aggatattca	2160
gatggagcac	tgctacttag	acattctctg	ggggattttc	tgcttgtctt	tcttgagctt	2220
tttggaagga	taattctgat	aaggcactca	agaaacgtac	aaccacagtg	ctttcttcaa	2280

atcatatgag	aaatactatg	catagcaagg	agatgcagag	ccgccaggaa	aattctgagt	2340
tccagcacia	ttttcttttg	aatctaacag	gaatctagcc	tgaggaagaa	gggaggtctc	2400
catttctatg	tctgggtattt	gggggttttg	tttggttttg	cttttagcttg	gtgaaaaaaaa	2460
gttcactgaa	caccaagacc	agaatggatt	tttttaaaaa	aatagatgtt	cctttttgtga	2520
agcaccttga	ttccttgatt	ttgatttttt	gcaaagttag	acaatggcac	aaagtcaaaa	2580
tgaaatcaat	gttttagttca	caagtagatg	taatttacta	aagaatgata	cacccatattg	2640
ctatatacag	cttaactcac	agaactgtaa	aagaaaatta	taaaataatt	caacatgtcc	2700
atcttttttag	tgataataaaa	agaaagcatg	gtattaaact	atcatagaag	tagacagaaa	2760
aagaaaaaag	gactcatggc	attattaata	taattagtgc	tttacctgtg	ttagttatac	2820
atattagaag	catatttgcc	tagtaaggct	agtagaacca	catttcccaa	agtgtgctcc	2880
ttaaactc	atgccttatg	attttctacc	aaaagtaaaa	agggttgtat	taagtcagag	2940
gaagatgcct	ctccattttc	cctctcttta	tcagaggttc	acatgcctgt	ctgcacatta	3000
aaagctctgg	gaagacctgt	tgtaaaggga	caagttgagg	ttgtaaaaac	tgcattttaa	3060
taaacatctt	tgatcacaaa	aaaaaaaaaa	aaaaaaa			3097

<210> 353

<211> 582

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (575)

<223> n equals a,t,g, or c

<400> 353

attcggcacg	agtcgggtgct	cgctccatcg	ggctctggcgg	ggctggcagc	ggcgaggacc	60
cgggtctggc	gctgtggggc	gggagccgtg	gggaggcatg	gaggggctgg	ttgtcgccgc	120
cggcggggac	gtctccstgc	acaacttcag	cgcgaggctg	tgaggagcagc	tgggtccactt	180
ccacgtcatg	cggctgacgg	actcgtgtgt	cctgtgggtg	ggggccacgc	cgcacctgcg	240
caacctcgcc	gtggccatgt	gcagccgcta	cgactccatc	cccgtgtcta	cctccctcct	300
tggagacact	tccgacacga	cctctactgg	ccttgcccag	cgcctagcca	ggaagaccaa	360
caaacaggtg	tttgtcagct	ataaccttca	gaacacagac	agtaacttcg	cattacttgt	420
agaaaacagg	atcaaggaag	agatggaggc	tttccccgaa	aagttctagc	tgagtggcag	480
aagtgagaat	ttgtaaactt	atgtacaatg	tacgtgtaaa	taaattggatt	gaattcaaaa	540
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaanactcg	ag		582

<210> 354

<211> 835

<212> DNA

<213> Homo sapiens

<400> 354

ccaccaggga	cgaccgctac	tgaggaaacta	gtggaycccc	cgggrctkgm	agggaaatycg	60
gcagagggtt	attgagagg	tttagcatga	aggctgttga	atatagttga	aggccttttc	120
tgcattctatt	gagataaacg	tggtttttgt	cattggttct	gcttgtgtga	tggattacgt	180
ttattgattt	gcatatgttt	aaccagcctt	gcatccctgg	gatgaaactg	acttgatcgt	240
ggtggataag	ctttttgatg	tgctgctgga	ttcggtttgc	cagtatttta	ttgaggattt	300
tcacaccaat	gttcatcagg	gatattggcc	tgaaattttg	tttttttgtt	gtgtctctgc	360
caagttttgt	tatcaggatg	atgctggcct	catgagttaa	ggaggattcc	ctctttttct	420
atcgtttgga	atagtttcag	aaggaatgg	acaatctcct	ctttgtacct	ctgggtggaat	480
tcagctgtga	atctgtctgg	tcctggactt	tttttggttg	gtaagctatt	aattgctgcc	540
tcaatttcag	aacttgttac	tgggtctattc	agggattcaa	cttcttcctg	cttttagtctt	600
gggtgtatgt	gtccaggaac	ttatccattt	attctggatt	ttctagttta	tttgcataga	660
ggtgtttatg	gcattctctg	atgatagttt	gtattttctgt	gggatcagtg	gtggtatccc	720
ctttatcatt	ttttttattg	cacctatttg	attcttcttt	cttttcttct	gtattagtct	780
ggctagtgg	ctatttttgt	gatcttttcc	aaaaaaaaaa	aaaaaaaaac	tcgag	835

<210> 355

<211> 879

<212> DNA

<221> SITE
 <222> (2762)
 <223> n equals a,t,g, or c

<400> 358
 aattttagg caggagtaaa cggttaactga cggtggggtta gtgccctgca tcttgcatat 60
 ttgaactgtc tagagttcct gccattgctg ggtataaaac gaggagctct ctgttgacct 120
 gtaaatcatt aatacttctt gacttagagt gtcacttcac tttatagatg acattttcct 180
 ctttcccctt gatattttct atgttgtgtt agataattgg tagataatrt gttgtgggtt 240
 agtacattta gggcttctat ttatttagat tttgtttgtt ggagtcctgt tccaaaaggg 300
 aatgtgccat ttagtctgca tctgtatctt tgtggacttg atgatcactg gtttgatttt 360
 gaaaaatgtc ttttccagct tttagttact ctcatcaaat gtcacatatt tctaatacaca 420
 tgcactcctt taccacagag gcacataatc atttggcctc atagcagtta tccatggccg 480
 tactgtagta aagttcctta gaactttgcc aggagtgaac tagaaaaaag tgcttactag 540
 ggcctaagag ttgctttgtg ccgtgtagtc cggcctttgc actagtagat cattgctgac 600
 ataggtcagt ttagagacct ttctgtgtta atgcctcctg gtactgtctt aagatacgta 660
 cagtgtctgt ttttagatct atgcataatg catgaagctc cttgtgggct ctgcatgaag 720
 ctgctgcttt gtttttgggt taacagatgt gcctgtcaac tagcatgtgt attgtccaaa 780
 ttccataaac ttaaggtttt taagggctgt gtgggttctg agctctatgt gtctttccta 840
 tcttgtacc ttcaaagggg gagaaatgag atttatacat ccaaagttag tctgataaat 900
 atggcttttt gtttctccat gtaacctaga ctgtcaaaaa taagtgatgg tgataagtag 960
 gcctggagcc tcagcttctg taaatctcat tcttaaatca ttgctagact cgtgttggca 1020
 aaaaacaata cctgtggatt gtccttaagg gtccttaagg gatacctgtg ttgctgttag 1080
 ctgaactgta gtgaagcacc gatccaaatc ggtcttctga agtatcagtt atgcttttga 1140
 gtttagaaaa tacttaggtg ttagtctagt cttcccattc atgaatcagt gtatgtccat 1200
 atcagagagc ctcaacttct ttttcttcc ttttaaaaaa tgattttagt gttttgattt 1260
 agtgtatact acatagttca gtattattgg ctttaccagt gttgacagaa aaattttaaa 1320
 tctccagttg caaacagcaa tggattagga tatggaaata aaatcatggt gacatcactg 1380
 ctgagttatc ttaaacctct gctacttaat tctccatatt gaaatgcata ctccctccaca 1440
 tacatggctt ccaagtaaaag gcaattgtag agggggcctg tctatcccag tatggttggga 1500
 ttttaaacat atctgtgttt ccgttatttt gggaactgat taatattttac aatttttttt 1560
 gtttatgagt tattttgata ctaagaaaag agagaatcta gaacatcttg magttgaaat 1620
 acaaatttta ttcttttggg cttggggagaa tttaagcagt ctatgcaact catcaaattg 1680
 tgagaaatag ccctccgagg ttccagtaag ctttcagtga ctttgatacc tccccaagtt 1740
 tcttgagttg ctgcttggtta acaccagct ttttaactgag tgtttgctcc tgatgggtta 1800
 ggagattttc atgttgatc acactgtcaa gttttatttt gtctttttat ccctccgtgg 1860
 atgtgagttt gaaacaagca cggtacagta atcctgcctg atagagtagt ctggaatgag 1920
 aattactttt tgggtgagag agttctccat tttaattgtt ctaaagtttt tcatatgaac 1980
 ttggcattgg aaaagggagg taaagaaaaa ggacgtttac taaaagcagt gtctactctt 2040
 cccctttgtg agtggttatt catggctaata gaaaaaaaga gaaggactct tgggttttgt 2100
 gttgccatgt taagcatgga gagggatgct tgacagcatg ctaattgaag ccagagcaag 2160
 tatgtccttc atcaggtaat caggaactct tcagttgaag ctgaggaact aactgattag 2220
 ttgttgatca taatataatt gggtacaaag tggagtgcc agctggctta agtaccctaa 2280
 gaaaagaatg cagcagccta acttagtggt accatatggt actgaatttg aaactgacct 2340
 ttttcccac cctacttcac acacctaaaa ctcttttctt gtcagaccaa agagcgaaaa 2400
 gaaaaaaaaa aagtaaaaca ctttaccaat ctgtcactca ggtacaattt tgtgggtgaga 2460
 tttttgtctg ttctctttgt attgctctta agagtccttt ctgagcatat tattctgcca 2520
 ttgctctgtt cttccttggg gcacctcagc tctggatgct acccctggga tatctactgc 2580
 tgttatgtga atgataggag gtaagtgacc attatagtaa gggctctttg taaaaaaatt 2640
 caaaaaattt aaaaaggatg tatacatatt atagtctggc tatcagtttg atatcttget 2700
 gtcaagtatg tttctcaatc tgtatttatc catcccatca ataaatgtta atggtaaaac 2760
 ancaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 2793

<210> 359
 <211> 2795
 <212> DNA
 <213> Homo sapiens

<400> 359
 aattttagg caggagtaaa cggttaactga cggtggggtta gtgccctgca tcttgcatat 60
 ttgaactgtc tagagttcct gccattgctg ggtataaaac gaggagctct ctgttgacct 120

09500560

```

gtaaatcatt aatactttctt gacttagagt gtcacttcac tttatagatg acattttcct 180
ctttcccctt gatattttct atgttgtgtt agataattgg tagataatrtta gttgtgggtt 240
agtacatttta gggcttctat ttatttagat tttgtttgtt ggagtctgtt tccaaaaggg 300
aatgtgccat ttagtctgca tctgtatctt tgtggacttg atgatcactg gtttgatttt 360
gaaaaatgtc tttccagct tttagttact ctcacaaat gtcacatatt tyctaatacac 420
atgcactcct ttaccacaga ggcacataat catttggcct catagcagtt atccatggcc 480
gtactgtagt aaagttcctt agaactttgc caggagtga ctagaaaaaa gtgcttacta 540
gggcctaaga gttgctttgt gccgtgtagt ccggcctttg cactagtaga tcattgctga 600
cataggctcag tttagagacc tttctgtgtt aatgcctcct ggtactgtct taagatacgt 660
acagtgtctg tttttagatc tatgcatatg tcatgaagct ccttgtgggc tctgcatgaa 720
gctgctgctt tgtttttggg ttaacagatg tgccgtgtcaa ctagcatgtg tattgtccaa 780
attccataaa ctttaagggtt ttaagggctg tgtggtttct gagctctatg tgtctttcct 840
atccttgtac cttcaaaggg tgagaaatga gatttataca tccaaagtta gtctgataaa 900
tatggctttt tgtttctcca tgtaacctga actgtcaaaa ataagtgatg gtgataagta 960
ggcctggagc ctcagcttct gtaaattctca ttcctaaaa tttgctagac tctgttggc 1020
aaaaacaaat acctgtggat tgtccttaag gcttttaatc agatacctgt gttgctgtta 1080
gctgaactgt agtgaagcat cgatccaaat cggctcttctg aagtatcagt tatgcttttg 1140
agttagaaaa atacttaggt gttagtctag tcttcccatt catgaatcag tgtatgtcca 1200
tatcagagag cctcaacttc ttttttcttc ctttttaaaa atgatttttag tgttttgatt 1260
tagtgtatac tacatagttc agtattattg gctttaccag tgttgacaga aaaattttta 1320
atctccagtt gcaaacagca atggattagg atatggaaat aaaatcatgg tgacatcact 1380
gctgagttat cttaaacctc tgctacttaa tcttccat tgaatgcat actcctccac 1440
atacatggct tccaagttaa ggcaattgta gaggggccct gtctatccca gtatggttgg 1500
attttaaaaa tatctgtgtt tccgttattt tgggaactga ttaatattta caattttttt 1560
tgtttatgag ttattttgat actaagaaaa gagagaatct agaacatctt gmagttgaaa 1620
tacaaatttt attcttttgg tcttgggaga atttaagcag tctatgcaac tcatcaaagt 1680
gtgagaaata gccctccgag gttccagtaa gctttcagtg actttgatac ctccccaagt 1740
ttcttgagtt gctgcttgtt aacaccagc ttttaactga gtgtttgtct ctgatgggtt 1800
aggagatttt catgttgtat cacactgtca agttttattt tgtcttttta tccctccgtg 1860
gatgtgagtt tgaaacaagc acggtacagt aatcctgcct gatagagtag tctggaatga 1920
gaattacttt ttgggtgaga gagtctctca ttttaagtgt tctaaagttt tcatatgaa 1980
cttggcattg gaaaagggag gtaaagaaaa aggacgttta ctaaaagcag tgtctactct 2040
tcccctttgt gagtgtttat tcatggctaa tgaaaaaaag agaaggactc ttgggttttg 2100
tgttgccatg ttaagcatgg agagggatgc ttgacagcat gctaattgaa gccagagcaa 2160
gtatgtcctt catcaggtaa tcaggaactc ttcagttgaa gctgaggaa taactgatta 2220
gttggtgatc ataataaat tggttacaaa gtggaagtgc cagctggctt aagtacccaa 2280
agaaaagaat gcagcagcct aacttagtgt taccatatgt tactgaattt gaaactgacc 2340
ttttttccca cctacttca cacacctaaa actcttttct tgtcagacca aagagcgaaa 2400
agaaaaaaat aaagtaaaac actttacca tctgtcactc aggtacaatt ttgtgggtgag 2460
attttttgtc gttctctttg tattgtctct aagagctcct tctcagcata ttattctgcc 2520
attgcctctg tcttctttgg ggcacctcag ctctggatgc taccctggg atatctactg 2580
ctgttatgtg aatgatagga ggtaagtgc cattatagta agggctctt gtaaaaaaat 2640
tcaaaaaatt taaaaaggat gtatacatt tatagtctgg ctatcagttt gatattcttg 2700
tgtcaagtat gtttctcaat ctgtatttat ccatcccatc aataaatgtt aatggtaaaa 2760
cactcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 2795

```

<210> 360

<211> 575

<212> DNA

<213> Homo sapiens

<400> 360

```

ggcacgagggc ttttttagct caagagtttg ttattacccc ccttctgaag cttacttcca 60
tcaattcctc aaactcattc tgtgtccatt tttgtgccct tactagagag gatctgggat 120
aattttggagg agaagaggca ttctgggttt ttaaattttc agcatttttg cacggttttt 180
tcctcatctt agtggattta tctacctttg tactttgagg ctgatgacct gtggatgaga 240
ttctgtgtgg gggctctttt tgtcgatgtt gatgttattg ctttctgttt gttaggtatt 300
ctaacaggca gggccctctg ctgcaggtct gctgcagttt gctggaggtc cactgcagac 360
cctatttgcc tgggtatcac cagcagagggc tgcagaacag caaagattgc tgcctgctcc 420
ttcctctgga agtttctgct cagagggggca tggacctgat gccagctgga gctctcctgt 480
ataggtgtct gtcaactcct gttgggaggt ctctcccaat caggaggcat ggaggtcagg 540

```

gaccacttg aggagcagtc tgtctcttag cagag

575

<210> 361

<211> 1165

<212> DNA

<213> Homo sapiens

<400> 361

ggcacgagat	tttttccttt	atttttgtca	aatgagttta	tttgaagaac	cagcctttga	60
gctctgagat	tatgtcctca	gtttgggtctg	ttctgctgtt	aatgctacca	actgaattat	120
gaagttctta	tagtgaactt	tccaattcca	gaagttcagt	ttgatttttt	cttaaaatgg	180
ctatttctta	tgtcagctct	tggatcattt	tactggatta	cttgggttcc	aaggatgggt	240
ttcaactttt	tcctgaatct	tgatgaactt	ctttgtcatt	cagactctga	attccatttc	300
tgtcgtttta	atcatttcag	tctagttaag	aattattgct	ggggagctac	tgggctcatt	360
tggaggttaag	gggtactctg	gcttttagaa	ttgccagaat	tcttgagctg	attctttctc	420
atctgtgtgg	attgatattc	cattaacttt	tgaaattgat	attcttcaga	tggagctttt	480
agctgttatg	tttttttaat	gctgttaaga	gtttgactgt	ggtatacctt	gggcttagtt	540
gattgtcttt	gtttctgaca	ctgatgcttt	cagaggaaca	aagctcagtt	cagcctccct	600
aggcagaatt	ctttaactct	ggggactctg	gactgggaac	acagctttat	tctctgtccc	660
cttaagatca	agcatttgct	gcactggggg	tgtgggagga	tatgggtgctc	ccagcctgct	720
ggcaacagtg	ctctgttgga	ggtttccagc	agaagcactg	ttggggctgt	tgagtggcct	780
tgaacaaaac	ctctctgatg	ggtgtctgcc	agcaaaaagca	ctccagtggg	atggcagggg	840
tggccaatga	gagagctatg	gtggtggctc	tggtaaaagc	actaacagca	ggttgggttt	900
gggttgctgc	aagcaagtgt	gcttcagtca	ggcagcgggc	aggcacaggc	aaaagtgtct	960
tggcatggtg	gctgaggatt	catggacgaa	aggactccag	cagggttgga	gggtggccat	1020
gggtgaaaga	tctccattgc	agcagcaggg	acactgcaga	tactctgggt	tgagtaagca	1080
ctctggcagg	gcagtggata	ggttccaggc	aaaagcactc	tgatatgggt	cccctatttc	1140
tttgcagtaa	acatttaaaa	aaaaa				1165

<210> 362

<211> 454

<212> DNA

<213> Homo sapiens

<400> 362

ggcacgaggc	ttgtgagctc	accaaacaag	gattttcagt	tagattttgt	ctttcttgaa	60
cttaagaaaa	caaatgacaa	agttttgaat	gaaaagcctg	ctgttgttcc	acatctcggt	120
gctgtttaca	ttcctttgtg	gagcctacat	cttcctaagc	tttttagcag	gtatatgttg	180
aacactttct	tttcatgggt	gagacagaat	cagaggccat	ggatactgac	aactgatttg	240
tctgtttttt	ttctctgtct	ttttccatga	ctcttatata	ctgcctcatc	ttgatttata	300
agcaaaacct	ggaaaaccta	caaaaataagt	gttgtgggtt	atctagaaaa	atatggaaaa	360
tattgtctgt	atttttgggt	aagaaaatca	atttttgtata	gtttattttca	atctaaataa	420
aatgtgaatt	ttgttttaaaa	aaaaaaaaaa	aaaa			454

<210> 363

<211> 788

<212> DNA

<213> Homo sapiens

<400> 363

ggcacgagcc	ttcatccagg	tgagaatgtg	ctgcagctgg	tttctttggg	aagcctgtgg	60
gttaaagtaa	gcgatagtct	atatgccgtg	tggccatcta	cgaataaggg	ctgggattgc	120
tggtggctct	ggtgcagcac	agtcactgct	ttttccatac	ttggagagcc	tatgggagtg	180
cgattttgat	agggcttgaa	ttgcaggaag	agcccatggc	tcccaagggt	gggcttgcat	240
ttctatcaag	tagctgttaa	taatggggca	gttgctgggc	aactgtgtgc	tcagcagctg	300
ggcttttccc	tcagcccttc	tactaacctg	ctgtgaggca	agacaagggc	aggacactaa	360
cgttctctgc	tcctgattct	ttttctttac	cattccttaa	gagaaggaaa	gcagagacgg	420
tccagtcctg	tgatttctca	gtgcttggtc	taatcatatg	tgctgatttc	ctgttgaatg	480
aagatgaagg	ccgggtgcgg	tggctcaggc	ctgtaagccc	agcacttttg	gaggccaagg	540
tgggtggatc	acctgaggtt	tggagtttga	gaccagcctg	gccaacatgg	tgaaacccca	600
tctctactaa	aaatacaaaa	attagctggg	catggtaagt	gggcgcctgt	aatcccagct	660

T02T60:2805660

acttgagagg	ctgaggcagg	agaattgctt	gaacccagga	ggcagaggct	gcagtgagcc	720
gagatcgcg	catcgcactc	cagcctgggc	gacaacactg	tctcaaaaaa	aaaaaaaaaa	780
aaaaaaaaa						788

<210> 364
 <211> 908
 <212> DNA
 <213> Homo sapiens

<400> 364						
ggcacgaggt	aatggctgag	gcacaaggag	cgagtatttt	aaatcaggct	tatgaatgtg	60
ctctgtggat	acggtttgcc	catagggagg	tggttttggg	ggttgcgaa	catactcaag	120
ctgtccctga	ccgactcacc	agtattctac	aaacttacta	caaacctctc	aaaggaccat	180
cttggaagac	actagcaagg	gcgtgcacaa	tcccctctga	cgttgctggc	tgggtggtga	240
ggccacggag	cctccctgtg	tgagactgta	ctatgtggtc	actagaatgt	tttgaaagac	300
agttctctgc	aggcccggca	ccgtggctca	cgtctgtaat	cccagcattt	tgggaggctg	360
aggcgggtgg	atcacgaggt	caagagatcg	agatcaccct	ggccaacatg	gtgaaaccct	420
gtctctacta	aaaatacaaa	aattagccgg	gcgtgggtgg	gggcacctgt	agtcctagct	480
actcaggagg	ctgaggcagg	agaatggcgt	gaacccggga	ggcggagctt	gcagtgagct	540
gagattgcgc	aactgcactt	cagcctggcg	atagagcgag	actccatctc	aaaaaaaaaa	600
aaaaaaaaaa	atagggactt	actgggcccg	tcggggaggg	ggaggcggga	tgggacaccc	660
aacacttttt	ccattttctt	agagggaaac	tcagatgtcc	aaactaattt	taacaaacgc	720
attaagaggt	ttattttggg	acatggcccc	cagtggcctt	tgccccagaa	aggggaaagg	780
aacacgcggg	tagatgattt	ctagcaggca	ggaagtccct	tgcggtgtca	ccatgagcac	840
ctccagctgt	actagtgcc	ttggaataat	aaatttgata	aggtggtgaa	aaaaaaaaaa	900
aaaaaaaaa						908

<210> 365
 <211> 1891
 <212> DNA
 <213> Homo sapiens

<400> 365						
ggcacgagtg	cacctgcaag	catgggggtg	gcaggagcca	cagagctggc	tgctgagagg	60
agctgcagat	ctggagaaga	cagcctaggt	aaaggtggac	agtgtgagag	ctgctgatga	120
gatagctgct	gaataaaaact	acattttacc	tgcctatggc	ccgccagggt	ttctttcagc	180
tatcgcccat	ccaccagtc	ccctcgaaac	tcagcatggg	ctggaacctg	accctgggca	240
tgacatttgg	catagttgtg	gacctgacac	ctgtgtttgt	cctagtccctg	tttctccctg	300
ccttccctgt	cctctcgctg	ccctcatggt	cactcccaag	ggatccaacc	catgttaagt	360
atgggctgga	ggactgcatg	aatgcctcat	gatcttccca	gaggcaaagg	cacctactgc	420
cttccaaggt	cagtgggagg	ttgggatcaa	cactgtttat	tatgcttagg	acaaaaaaga	480
tagggagaaa	gatgtgcacc	ttacagtcac	ctttctggga	tagaacacaa	tgggtcttct	540
cctgcctcct	ggatatgtta	gtcaaggcca	gtccatgcta	cacatctagt	ctgacttcta	600
aaatagaagc	accagatgaa	ttcagccctg	agagaatttt	cagcagctgt	gggggcgctg	660
gaggaaacac	tattaaatag	ttttgcacct	gagacagata	gcctcactcg	cctcacccta	720
gtcctggtgg	catttgtctc	aggtgcaaaa	tttaagaaaag	aaaccttggg	gtgctcacc	780
tgtggctggg	tagatggtec	taaagtgggt	gttttcaagc	ctgagtgtgt	atcaggatca	840
tcaggggagc	ttgctaaga	gcagttcctg	cggtcagacc	ctcatgcatt	ttgagcagg	900
gtggggactg	ggaaactgca	tctgtaacct	gctgtaatct	aacgcttatc	taaatactac	960
tgtgtctaca	cagagaacac	cgcaaaagta	gaggtgttcc	tccagagggc	aggtgagcag	1020
atggcacagt	ctgcttggaa	ttcagtcagg	tgatgagaga	tgagatgagg	cactcctagc	1080
tttggaaga	gggagctgaa	agatgaacct	ttgcaggtgc	ccacgggtcaa	agtgggtggt	1140
taatgccatg	ccatgcccac	tttctgttgg	ccttggcagg	gagttacagc	cctaccttag	1200
gacctggctc	cttattttctg	ctgtaggctc	tttccctgcc	tggccgagat	ggagtggaa	1260
gagacctaga	aacatcaagc	taaatacatg	tcctcagaaa	gataaagggt	tacattttca	1320
ccccatcaa	atctgaaagc	tctctgcctg	tgtttttcta	agggataggg	acatcattac	1380
tcagtcaca	acctggactc	atgtagggtc	ccctgtcagt	aaaggagtca	gtcaagccca	1440
ccaggtatac	caaggactct	taccctcagc	ccctactcct	tggaaagctg	ccccttggcc	1500
taatattggt	gttttagcttg	agcctgactc	cttctcaaca	ctaagagctg	atgaagtcct	1560
gaagcagaaa	gagctctgac	ctgagagtca	aacatcctta	ttctgatctc	agctcagccc	1620
ctgatttgtt	gtgtgaccct	ggatatgtca	cttcctgtct	ttttgacttt	ttaaaatgaa	1680

```

gggtagacta gaggagagct tctaaaactt taatgtggtc aacgaaatgg aataggaaat 1740
tccacaagtc tgtccttcca caaaagcagc aaataagggtg gcaaaaactc aaattttatgg 1800
gaactctgga aacgaattga aagtttacag caatcagggtg aatacctaag aataaaaagct 1860
ggatttagta agaaaaaaaa aaaaaaaaaa a 1891

```

```

<210> 366
<211> 1157
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (826)
<223> n equals a,t,g, or c

```

```

<400> 366
caaggctcgcc ggtatcgata agctttgata tcgaattcaa ccaatcactg ttatcagggc 60
agtcacccct ttgtccagcc atgctcctgt atcagagaag cactgccatg acagatattg 120
ggcaaaactga tatatgacc ccaatactgg gtttggtgct cattctcgtt aatgcatgtg 180
ttaagggttt cattctaata atctgcaaaa aagtgattgt tgtctttaa atgttaccac 240
aactagtctt ttagcaagaa tcttactaga ataaaatggc tcttgctacc tgtattttta 300
atcagcctat gtatattgat cccattcctg atattatcac cttaatatat aacagcccca 360
attcctctta ttgagcattg gttgctaggg aaagcaaaaa gttaagagaa aactactgag 420
attttctctc taatttgcct ctgtctgcct ctaactagct tagagatctt ggacaagtcc 480
tttaacagtt ctctgtcagc tgcctggact gtgaaataga gataaaagta cctgtctawt 540
tcaggccggg cagcgtggct cagcctgta atcccagcac tttgggaggg ccaggagggg 600
gggtcacgag gtcaggagat tgagaccatc ctggctaata cagtgaacc ccgtttctac 660
taaaaataca aaaaaattag cggggggtgg tgggtgggcac ctgtagtccc agctacctgg 720
gaggctgagg caggagaatg gcatgaaacc cggaggcgga gcttgcagtg agccgagatc 780
acgccacggc attgcagcct gagtgcacga gtgagacycc stctcnaaaa aataaacctt 840
taaaaaaaaa aaaaaacaac tgtctatttc atagaggat tgtgaggatt aaatgagata 900
atgttgatga agtaattttg aaaagcatat caatgtgcag ctgtaaagtt ttattcatat 960
ttaccagcca ggcaagtagt attagctgtt ataagtaaag gtaaacatcc aagtgcatat 1020
gttcagatga ttatttttaa tatacatatt ctcttgatat atattcttct agttgcagat 1080
ctgattgggt gaattcgata tcaagcttat cgataccgtc gacctcgagg gggggcccg 1140
taccaattg gccctag 1157

```

```

<210> 367
<211> 1158
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (826)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (842)
<223> n equals a,t,g, or c

```

```

<400> 367
caaggctcgcc ggtatcgata agctttgata tcgaattcaa ccaatcactg ttatcagggc 60
agtcacccct ttgtccagcc atgctcctgt atcagagaag cactgccatg acagatattg 120
ggcaaaactga tatatgacc ccaatactgg gtttggtgct cattctcgtt aatgcatgtg 180
ttaagggttt cattctaata atctgcaaaa aagtgattgt tgtctttaa atgttaccac 240
aactagtctt ttagcaagaa tcttactaga ataaaatggc tcttgctacc tgtattttta 300
atcagcctat gtatattgat cccattcctg atattatcac cttaatatat aacagcccca 360
attcctctta ttgagcattg gttgctaggg aaagcaaaaa gttaagagaa aactactgag 420
attttctctc taatttgcct ctgtctgcct ctaactagct tagagatctt ggacaagtcc 480

```

ttaaacagtt	ctctgtcagc	tgcttggact	gtgaaataga	gataaaagta	cctgtctawt	540
tcaggccggg	cacggtggct	cacgcctgta	atcccagcac	tttgggaggc	ccaggagggt	600
gggtcacgag	gtcaggagat	tgagaccatc	ctgggctaag	cagtgaacc	ccgtttctac	660
taaaaatata	aaaaaattag	ccgggggtgg	tggtgggcac	ctgtagtccc	agctacctgg	720
gaggctgagg	caggagaatg	gcatgaaacc	cggaggcgga	gcttgcagtg	agccgagatc	780
acgccacggc	attgcagcct	gagtgcacaga	gtgagacycc	stctcnaaaa	aatwaaacct	840
tnaaaaaaaa	aaaaaaacaa	ctgtctatct	catagaggta	ttgtgaggat	taaatgagat	900
aatgttgatg	aagtaatttt	gaaaagcata	tcaatgtgca	gctgtaaagt	tttattcata	960
tttaccagcc	aggcaagtag	tattagctgt	tataagtaaa	ggtaaaccatc	caagtgcata	1020
tggttcagatg	attatttttta	atatacattt	tctcctgata	tatattcttc	tagttgcaga	1080
tctgattggg	tgaattcgat	atcaagctta	tcgataccgt	cgacctcgag	ggggggcccg	1140
gtaccaaat	ggccctag					1158

<210> 368

<211> 2267

<212> DNA

<213> Homo sapiens

<400> 368

aaccaatcac	aaagtgtggg	cattattttaa	atcttgattc	aaataaacia	actgaaatat	60
ataaatgaca	cttatgaaac	aaaaatgtgg	ccactgattg	ggtatttgac	taaatcactg	120
ctcaatttta	ttttgtcgct	gataatagca	atgtgcttat	gtgttttatc	ttctagtgtat	180
acatactgaa	atattttacag	atgggaaataa	tataatgccca	attattttct	tggaaattaa	240
tgtgggatgt	gggaaagtag	acagagatag	agatttaaca	agatggatta	tgagctgata	300
attgttgaag	ttgagtgcac	ggcacatagg	ggttttattat	aatatcccgt	cttcttttgc	360
atatgtttta	ttttccataa	taatttttta	atgtttctaaa	aatttaaaact	ttattttcca	420
atcaaatgga	agtcttttaga	gattttattt	tgcaagtggc	aatatgatta	aaagggaaat	480
aggaaagata	aattaagcaa	tgattttgcac	attaattggc	agttggggaa	gactaaagac	540
caggagatta	gttaagagtc	tcttacagca	tccctatcta	cattggaaaa	agtctgactg	600
aggtaacatt	aatagaaatg	aaaaggaaaa	agtgcacagga	atgattttga	ggagcatcaa	660
agttcgctgc	tacttgaata	tgaaacacta	agcagagaaa	gattaaaaga	ggacacaaaa	720
atctcaaac	tggtcatattt	taaaaatagt	tatgtcatga	ataaatatag	gccagtcaag	780
atgacaaatt	gttgggtgat	gaggtaacaa	atttacttct	agacatcaag	tttgagagga	840
tgaagtgcac	acttgctatt	aaagtaaat	attgtttacc	tacacatgca	ttaaaaaaa	900
tcctttgtgc	tgtctcctga	aatgtgatta	tgtgttttaa	aatacagtgt	cataaattaa	960
acttagcata	ataaaaataat	tgaataaaaat	aaaactataa	gtcaaatttc	cttgttacta	1020
atattaaaaat	agcccaaacc	cttcttttgat	aaaattctac	ttttttgtca	tgtttttacca	1080
tttgttttaca	ttattttccct	gcaaaaaatg	ttccttgata	tcataagtag	atctgtatat	1140
gtacttattt	tatatcactt	tcctgtctct	tatacatcta	aacatataaa	gcaatgaaca	1200
catcataggt	gcccaataaa	taccaagtgt	tctggccaat	atgctcactt	attgcaagca	1260
gtactgagaa	gaataagatt	gtaacgctgc	cagataattt	ggaaagtctt	ctgaagcttc	1320
cttaagtaag	ataacatcat	tattttatta	agtagtatca	ttaattatct	taagtaacat	1380
catcaatact	gaaataattt	cttctagtga	caaactacgg	aaatacatat	agtagaaact	1440
gtgtctaagt	cagacttttg	aatttcattt	aagacaaact	tagttgtaca	ctattaaaag	1500
tctataataa	ccacaatact	gatcagtgt	tagcatgtcc	atacccaaaa	gtttggaatt	1560
tgtcattttt	aatccctagc	atcatacatt	cccataatct	ttaccttagt	aagtgattcc	1620
ttgtgaccaa	gtgaaccact	ctaattacct	ccataaaaaag	aaattgagaa	gatgtctcaa	1680
aaacaataaa	aagcagaaat	atattgttct	ctaaaccctc	tgattcttga	cagtttttgc	1740
ttcctagatc	caccagttca	gcatgctacc	caatactgac	aactaatccc	agactttctt	1800
tgctacttga	agccaaggca	acatccaact	acatcatctc	tcgctgtttg	cttgaaaaca	1860
aatgtgaaac	tattttcattc	gtttgtctga	acttaccaat	aaatacatgg	ctagagggtca	1920
tttagtttgg	cagtattctg	attcagcaaa	gcaataaaac	caaccacaaac	tatttgaaat	1980
cccaatgtcc	aggaccctgg	agcaccatgt	ctcttgctgt	catagcacct	gactgtgagt	2040
gtgtttcctc	actgcctct	gaaagctggc	ggcaagaccc	ttgaccatca	aacaggagaa	2100
aaatcctcat	catctatcaa	ggggggccata	gttggaatct	ttctctgtta	tgacacataga	2160
atgttctctg	agaaacaaag	atctttccat	gaacagtaat	aagttccctc	ttgtttcaac	2220
aatgattggg	tgaattcgat	atcaagctta	tcgataccgt	cgacctc		2267

<210> 369

<211> 434

<212> DNA

<213> Homo sapiens

<400> 369

tatagcattg	tacatatgac	aagtcttttg	caaaactgtg	tgatctttgt	gaaagtagta	60
cagtatatga	cctttaattt	cttttttttt	tttttttttt	tttttttttt	tttttttttg	120
tagttgataa	taagcgaagg	ctttaaaatt	ttttatttga	aagaatttgt	taaattctac	180
tatgggtctt	ggaaataacc	catagtagaa	tttaaaacta	agagcatact	ttccaaaata	240
tggtctgaag	aaaacctcta	tcatatggca	aatgaagcaa	actgagaaag	catgaaaata	300
gaaatcacag	aataagaatg	atgtgcacac	accaagagtt	tgagaaacat	gctctaataa	360
tgagggtctg	cttaataaga	tttgggggtt	tcaatgctat	agaattcgat	atcaagctta	420
tcgataccgt	cgac					434

<210> 370

<211> 1673

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (515)

<223> n equals a,t,g, or c

<400> 370

tctccggata	actgtgctcc	tgacatcctt	ccttatgggtt	ttgggaactg	gtctaagatg	60
catacctata	tcagacttaa	tccttaaaag	aagattaatt	catggaggac	agatgttaaa	120
tggattggca	gggtccactg	taatgaatgc	agcaccattt	ctctctacga	cgtgggtttc	180
tgcagatgaa	agggccacag	ccacagctat	tgcataaatg	ctcagttatc	ttgggggagc	240
atgtgcattt	ttagttggac	cacttgttgt	tccagctccc	aatggacatc	acctcttctt	300
gctgcagaga	gcagcagggc	gcataattaa	gatcgcatag	aggctgttgt	atatgcagaa	360
tttggagttg	tctgtttaat	attttctgca	acactagctt	atttcccacc	ccgacctcct	420
cttccctcca	gtgttgctgc	agctagccag	cgtgagttat	cggagaagcg	tttgtagatt	480
attaagcaat	tttcgatttt	tgatgattgc	tttanatatg	ccataccact	tggtgatttg	540
ctggctggtc	tggagttctg	gacttaattt	taacaccagc	gcatgtcagc	caagtagatg	600
ctggctggat	tggatttttg	tccatagttg	gaggctgtgt	tggttgaata	gctatggcaa	660
ggtttgcaga	ttttatcagg	ggtagctga	aactaattct	tctcctcctg	ttttcgggag	720
ctacactgtc	atccacgtgg	ttcacccctga	actgtttgaa	cagcatcaca	cacctacctt	780
taaccacagt	gacattgtat	gcctcctgta	ttctcctggg	agtgttcttg	aatagcagcg	840
tgcctatatt	ttttgagctt	tttgtggaaa	ctgtctaccc	agttccagaa	ggaattactt	900
gtggagttgt	cactttttta	agtaatatgt	ttatgggagt	acttttattt	tttctcacat	960
tttatcatac	agagttgtct	tggttcaact	gggtgccttc	cgggtcgtgt	ttgctcagtc	1020
tctcctcat	tctgtgcttc	agggaaatct	atgacagact	ctatcttgat	gtggttgtct	1080
ccgtttaata	gcacagactt	gaaggagttt	aaaaggaggc	tggaaatcaa	tactgcacac	1140
tgcacatttg	ctcagaattg	cacatctaac	aggaaaagag	ggagaagaaa	gaaacttcat	1200
tcagaggttt	tgtttaggtta	cagattatca	cattaattta	attactacta	ggtaataata	1260
atgggagact	tgagtataaa	taggggattt	taaaactcta	cagatggcat	acctgtgcct	1320
gcttctgggg	ttggaagtgt	gacttcttac	acataaagca	ctacctaagt	aattctctct	1380
ctgttttttg	ccagtgtctaa	actactgatt	acttgtaatt	atgaaaagaa	ataaagggtg	1440
tctatcatat	gaagataacg	ccttccttaa	gtcacatatc	agaataggaa	gatatgccac	1500
taacttctaa	agaagttcaa	accctgtatc	caattttaat	gataaaatag	ccaagaggta	1560
tatcgatgat	ggaaattagc	cacatgtaca	ctacattttt	tctaataaag	ccatttctta	1620
tatgaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaa	1673

<210> 371

<211> 2805

<212> DNA

<213> Homo sapiens

<400> 371

cggacgcgtg	tttaggttac	aggcatatac	tagtgtctca	aaggcttcac	ttggccttgc	60
agatcacaga	gaacttggaa	agatgatgaa	tacaataatt	tttcatacaa	aaatggtaga	120
ttccttggtg	gaaatgttgg	tggaaacatc	agatctctcc	atattttgtt	tttatagtcg	180

F02160-230560

tgcttttgag	aagatgtttc	aacagtgttt	ggagttagcc	tctcaatcaa	gatactcaat	240
tgcatttcca	ctactttgca	ctcattttat	gagttgcacg	catgaactat	gtccagaaga	300
gcgacatcat	attggagatc	gcagtccttc	cttatgtaat	atgttcctag	atgaaatggc	360
caaacaagct	cgaaatctca	tcactgatat	gtgcacagaa	cagtgtaccc	ttagtgacca	420
gttgctaccc	aagcattgtg	ccaaaactat	ccagtcgaagc	agtgaataag	aaatcaaaaa	480
agcagactgg	taagaaaggg	gaacctgaaa	gggagaaacc	aggtgttgag	agcatgagga	540
aaaacaggct	ggttgtgacc	aaccttgata	aattgcacac	tgcactttct	gagttatgct	600
tctctataaa	ttatgtacca	aacatgggtg	tatgggaaca	tacctttacc	ccacgagaat	660
at ttgacttc	tcatctggaa	atacgtctta	ccaagtcaat	tgttgggatg	actatgtata	720
atcaagccac	acaggaaatt	gcaaaacctt	cagaacttct	aacaagtgtg	agagcataca	780
tgaccgtact	ccagtcataa	gaaaactatg	tgcagattga	tattacaaga	gtatttaata	840
atgtgcttct	tcaacaaaca	caacatttag	acagtcattg	agagccaacc	attacaagtc	900
tatacacaaa	ttggatattg	gaaactttgt	tacgacaagt	cagcaatggc	catatagcat	960
at ttctcctgc	aatgaaagcg	tttgtgaact	tacctacaga	aaatggatta	acattcaatg	1020
gcagaggaat	attctgacat	atcagaaatg	aggtcattat	cagaactact	aggcccatat	1080
ggtatgaagt	ttctaagtga	aagccttatg	tggcatattt	catcacaagt	tgctgaactt	1140
aagaaacttg	tgggtggagaa	tgttgatgtg	ttaacacaaa	tgaggaccag	ctttgacaaa	1200
ccagaccaga	tggctgcact	gtttaaaaga	ttatcatctg	ttgacagtgt	cttgaagagg	1260
atgacaataa	ttgggtgtaat	tttatccttc	cgatcattgg	cacaagaagc	acttagagat	1320
gtcttatect	accacattcc	ttttcttgta	agttcaattg	aagattttaa	ggatcacatt	1380
ccaagggaaa	ctgatattgaa	ggttgcaatg	aatgtgtatg	agttatcatc	agctgccgga	1440
ttaccttgtg	agattgatcc	tgcattggtc	gtagctcttt	cttcacaaaa	atcggaatac	1500
attagtccag	aagaagagta	taaaattgcc	tgccttctca	tgggtgttgt	ggcagtttct	1560
ttgccaacac	tggccagtaa	tgtgatgtct	cagtacagcc	ctgctataga	agggcattgc	1620
aacaacatac	attgcttggc	caaagccatc	aaccagattg	ctgcagcttt	gtttacaatt	1680
cacaaaggaa	gcattgaaga	ccgtcttaaa	gaatttctgg	cgcttgcac	ctccagtcct	1740
ctgaaaattg	gccaggagac	agataaaact	acaacaagaa	atagagaatc	tgtttattta	1800
ctgctagata	tgattgtaca	agaatctcca	ttccttacaa	tggatctttt	ggaatcttgt	1860
tttccttatg	tcttgctgag	aatgcatatc	catgctgtct	acaaacaaag	tgttacatct	1920
tctgcataaa	attacctact	taatcaagat	aagcacgcat	ttttgttgcc	ttggttttac	1980
ctgtagactg	tggaactatt	ttaccttaag	acctgaaaaa	gtttgttgga	ttataaattt	2040
ctttcatatg	gttgatattt	ctgatcattg	gtttcttaat	atgggtgtac	tacagtatac	2100
ttgggttgatt	taggttgcac	attcactgaa	ttcactgaga	ttattcctat	aattttaaag	2160
tatcatttat	ttgaaaaaca	tacattatca	acatgttttt	gatatttgat	aatgaaaaaa	2220
atctttgctt	gtttattttct	gaaaaagaac	tgtatttagt	gattatttta	gatagtata	2280
ttatagcatt	catctgtgtg	taaattatct	catatagggg	agagttctga	tctgtacct	2340
tgggtcttat	tgaaaaacaac	attggatgtg	catttctgtg	atgttatgaa	tacattttct	2400
ctttattttg	aaacattttgc	caaactaaat	actgtaacac	tgtataacat	ttaaaaatgt	2460
taaagaactg	cttagtatta	gaagcagatc	atttcccaaa	attctaagag	cagcagcata	2520
tgttgttgct	tgtataaagc	ctagcgataa	tttttagact	aacttccatg	gtgccctgtt	2580
ggcattagca	ctaccattgt	acctgtgtgt	ataataaaca	atcttagaca	tttatcaact	2640
gttgatacaa	atgttagtcc	ctaaccactt	tttatatatg	ttttaaat	ttgaaattca	2700
agtgtacctt	ccataacata	aaataaacac	tagactgtaa	aaaaaaaaaa	aaaaaaaaaa	2760
aaaaaaaaaa	ctcagagggg	ggcccgtagc	ctaactgcct	gtatt		2805

<210> 372

<211> 709

<212> DNA

<213> Homo sapiens

<400> 372

caagatccga	ctccctgcac	agccgtcctg	gtatgtacag	tccttcctgt	ttagtttatg	60
ccaggaaatt	aatcggttg	gaggccatgc	cttgccaaag	gtgacattac	aggagatgct	120
gaaaagctgt	atggttcaag	tagtagctgc	ctatgagaaa	ctctccgaag	aaaaacagat	180
taagaaagaa	ggtgcatttc	cagtcaccca	gaaccgggcg	ctgcagctgc	tttatgatct	240
gcgttacctc	aaacagcaac	cttcacgtcc	tgggtgcagc	gaacttcttg	ttcctgtttt	300
gggattgggt	aactggtacg	agaatcagct	cgcccccg	agcagtacgt	tcaactccca	360
agaaccccat	aacatcctgc	cactggcatc	cagtcagatc	aggtttggac	ttctccact	420
gagcatgaca	agcactcgaa	aggctaaatc	aaccagaaac	atcgaaacaa	aagctcaggt	480
tgtcccccg	gcacgtccca	cagctgggtg	cccagacagt	cctggctcct	tgttcagaca	540
gcttgtcagt	gaagaagaca	acacgtctgc	accttcatta	ttcaaacttg	gctggctctc	600

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (222)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (862)

<223> n equals a,t,g, or c

<400> 375

ctattatata	gcggcctctc	gacttttgag	actcgcgttt	ccttggccag	yggtaacaca	60
ggacgtgtgt	gcgcatgtgc	aagtgtggat	gtatgtgtgt	gcgtgtgttt	tgctcatttc	120
tttaggggaa	ttgggagtcg	gggttggagg	tgctgggcaa	tggaacttca	aattcaatgt	180
cgcccagcag	tgaggggagt	cgggaggtga	ggcctgtang	cnaaccaatt	ggtggagtct	240
cagcgatacc	caggtgagaa	gtgggttcacc	cagagggcag	ggtgggggcc	tcgggcagat	300
ctgtccctct	tgccccctct	gtccctcaaat	gtccaaaatg	ttggaggacc	tctgttcata	360
tcccacgcct	gggctcttgc	cagcagtgga	gttactgtag	agggatgtcc	caagcttggt	420
ttccaatcag	tgtaaagctg	tttgaaactc	tccgtgtgtc	gtgttttggt	tgtgcgtgtg	480
tgtgagagca	catcagtgtg	tgcaggctgt	gtttcccat	ttctctctc	ccttcagacc	540
catcatttag	aacaaatgta	agaaatccct	tcccaccacc	ctccctgcct	cccaggccct	600
ctgcggggga	aacaagatca	cccagcatcc	ttccccaccc	cagctgtgta	tttatataga	660
tggaatatata	ctttatatatt	tgtatcatcg	tgcctatagc	cgctgccacc	gtgtataaat	720
cctggtgtmt	gtcctttatc	ctggacatga	atgtattgta	cactgacgcg	tccccactcc	780
tgtacagctg	ctttgtttct	ttgcaatgca	ttgtatggct	ttataaatga	taaagttaaa	840
gaaaaaaaaa	aaaaaaaaag	gnggccgctc	taaggggt			878

<210> 376

<211> 1496

<212> DNA

<213> Homo sapiens

<400> 376

ccacgcgtcc	gcggacgcgt	gggctagctt	tgtcttcaat	ggctttctgg	acttcatcct	60
ccgacctgat	gatccccggg	cccaaaccct	ccgtcgccct	ttcgtcttta	agctgattcc	120
catgttgaac	cccgatgggtg	tggtccgggg	acactaccgc	acagactcac	gtggagtga	180
tctgaaccgt	cagtacctga	agcctgatgc	cgctctgcac	ccggccatct	atggggccaa	240
agctgtgctt	ctctaccacc	atgtgcactc	tcgtctgaac	tcccagagtt	cctctgagca	300
ccagcccagt	tccgtgtctc	ctcctgatgc	tccgttttct	gacctggaga	aagccaacaa	360
tctccaaaat	gaagctcagt	gtgggcactc	agctgacagg	cataacgctg	aagcctggaa	420
acaaacagag	ccagcagaac	agaagctcaa	cagtgtgtgg	attatgccac	aacagtctgc	480
ggggcttgaa	gagtcagccc	ctgataccat	cccccccaa	gagagtggcg	ttgcttacta	540
tgtggacctg	catggacatg	cttccaaaag	gggctgcttc	atgtacggaa	acagcttttag	600
tgatgagagc	acccagggtg	aaaacatgct	atatccaaa	ctcatctcct	tgaattcagc	660
ccacttcgac	ttccagggtc	gcaatttctc	agagaagaat	atgtatgccc	gagaccgtag	720
agatggccag	tctaaagagg	gaagcggccg	tggttgaatc	tacaaagcct	cagggataat	780
ccacagctac	acacttgaat	gcaactacaa	cactggacgc	tcagtaaaca	gcatccctgc	840
tgcttgccat	gacaatgggc	gtgccagccc	ccctcccccg	ccggctttcc	cctccagata	900
cactgtggaa	ctatttgagc	aggtgggacg	agctatggcc	attgcagccc	tggacatggc	960
ggaatgtaat	ccgtggcccc	gaattgtact	gtcagagcac	agcagcctta	ctaattctacg	1020
ggcctggatg	ctgaaacatg	tacgcaacag	ccgaggccta	agcagcactc	tgaatgtggg	1080
tgtcaacaag	aagagggggc	ttcgaactcc	acccaaaagt	cacaatgggt	tgctgtctc	1140
ctgctccgaa	aacaccttga	gtcgggcacg	aagtttttag	accggcacaa	gtgccgggtg	1200
tagcagcagc	agccaacaaa	attctccaca	gatgaagaat	tccccagct	ttccttttca	1260
tggcagtcgg	cctgcagggc	tgccaggcct	gggctctagt	acccaaaagg	tcaccaccg	1320
ggtgtctggg	cccgtcagag	gtaagccagt	ctgggagccc	ctgcaacatg	tgcttcggtg	1380
tctggggcat	tgctggggga	agtaagagct	tgaagatata	ctgttggccc	aggaccaagg	1440
ggtgaatcaa	taaaattagt	ttgtagcaga	aaaaaaaaaa	aaaaaaaaaa	aaaaaa	1496

<210> 377
 <211> 1135
 <212> DNA
 <213> Homo sapiens

<400> 377
 ccacgcgtcc gcttttgtat ctcaagaatt gagggttttg ttttctgata tcagggtttta 60
 ttattggtgg gaggctgtgt ttcttcctgg gtagaattga ataagatttt ccaggaaagg 120
 cttttgtgta gctaattaca gattatggtg caaagtatgt ctcatattcc tccccctaac 180
 cccagctaatt tgctgtatac ttgacagttt atttcaatat tgtattaaga cattgggtttt 240
 gtgctggaca gagtaaaagg gagatggtat ttttttttaa aagaacaatt tatttcataa 300
 ttaagtatct aaatacttgg ttgggaataa atgactaatt agaacagtac ctttaggtat 360
 tctgatacct ctacttagaa atgccttttt ttttcttgca aaaattactt ggcagatttg 420
 atgaaaaaga aaatgtgtcc aactgcatcc agttgaaaac ttcagttatt aagggtatta 480
 agaatcaatt gatagagcaa tttccaggta ttgaaccatg gcttaatcaa atcatgccta 540
 agaaagatcc tgtcaaaata gtccgatgcc atgaacatat agaaatcctt acagtaaatg 600
 gagaatactc tttttagaca aagagaaggg ctttttatcc aaccctaaga ttacttcaca 660
 aatatccttt atcctgccac accagcaggt tgataaagga gccatcaaat ttgtactcag 720
 tggagcaaat atcatgtgtc caggcttaac ttctcctgga gctaagcttt accctgctgc 780
 agtagatacc attgttgcta tcatggcaga aggaaaacag catgctctat gtgttgagg 840
 catgaagatg tctgcagaag acattgagaa agtcaacaaa ggaattggca ttgaaaatat 900
 ccattattta aatgatgggc tgtggcatat gaagacatat aaatgagcct cagaaggaat 960
 gcacttgggc taaatatgga tattggctgt atctgtgttt gtgtctgtgt gtgacagcat 1020
 gaagataatg cctgtggtat gctgaataaa ttcaccagat gctaaaattc aaaaaaaaaa 1080
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1135

<210> 378
 <211> 2704
 <212> DNA
 <213> Homo sapiens

<400> 378
 ccacgcgtcc gcttcttcag ctatgctgag gtgctgaagc gggagccggg ggccctggga 60
 gcacgctgct ggtcaactcta tggccgctgc tacctccgcc acttcaacga gctggagcac 120
 gagctgcagt cccgcctcaa ccgtggctac aagcccgctt ccaagtacat gaattgcttc 180
 ttgtcacctc ttttgacact gctggccaag aatggagcct tcttcgctgg ctccatcctg 240
 gctgtgctta ttgccctcac catttatgac gaagatgtgt tggctgtgga acatgtgctg 300
 accacgctca cactcctggg ggtcacctgt accgtgtgca ggtcctttat cccggaccag 360
 cacatggtgt tctgccctga gcagctgctc cgcgtgatcc tcgctcacat ccactacatg 420
 cctgaccact ggcagggtaa tgcccaccgc tcgcagacc gggacgagtt tgcccagctc 480
 ttccagtaaa aggcagtggt cattttggaa gagttgctga gccccattgt cacaccctc 540
 atcctcatct tctgcctgcg cccacgggcc ctggagatta tagacttctt ccgaaacttc 600
 accgtggagg tcgttggtgt gggagatacc tgctcctttg ctcatagga tgttcgccag 660
 catggtcatc cccagaggct atctgctggg cagacagagg cctcagtgtc ccagcaagct 720
 gaggatggaa agacagagtt gtcactcatg cactttgcca tcaccaacce tggctggcag 780
 ccaccacgtg agagcacagc ctccctaggg ttctcaagga gcaggttcag cgggatggag 840
 cagctgctag cctcgcccaa gggggtctgc tcctgaaaa tgccctcttt acgtctatcc 900
 agtccttaca atctgagttc gagcccctga gccttatcgc aaatgtggga gctggctcat 960
 cctgcccggg cctccactg cccagagacc tgcagggtc caggcacagg gctgaagtcg 1020
 cctctgccct gcgctccttc tcccgcctgc aaccgggca ggcgccaca ggccgggctc 1080
 acagcaccat gacaggctct ggggtggatg ccaggacagc cagctccggg agcagcgtgt 1140
 gggaaggaca gctgcagagc ctggtgctgt cagaatatgc atccacagag atgagcctgc 1200
 atgccctcta tatgcaccag ctccacaagc agcaggccca ggctgaacct gagcggcatg 1260
 tatggcaccg ccgggagagt gatgagagt gagaaagcgc ccctgatgaa gggggagagg 1320
 gcgcccgggc cccccagttc atccctcgct ctgctagcta tcctgtgca gcaccccggc 1380
 tctggagctc ctgagaccac cgccctgcat gggggcttcc ataggctcta cgggtggcatc 1440
 acagatcctg gcacagtgcc cagggttccc tctcatttct ctgggtgccc tcttggaggg 1500
 tggggcagaag atgggcagtc ggcacaaagg caccctgagc ccgtgcccga agagggtctg 1560
 gaggatgagc taccctctca ggtgcacaag gtatagacaa ggctgagcag ggttcctgtg 1620
 gccaggatg gaggccaccg ctgccctgcc atcccgctct cctgceatgg gacggctcct 1680
 ctgagtgttc cctggcccca cgtgtgtggt gtttgtgtgt ctgtgcctgg ccaaggagg 1740

tgccaacact	gggcttgcca	cagccccagg	agaggaattt	ggggcctagg	aaccgagggc	1800
acacgggact	ctagcctcat	ccccaggacc	cccttggttc	agagtgtggt	gctagaaact	1860
ggtccccagc	ccagccccag	tactgccacc	tttacaccta	cccctgcaag	tccccagagg	1920
gctgcccacg	atagaagctg	ccaagcaggg	agaacctgtg	ccaactgtgg	agtggggagg	1980
ttgggcctgg	accctcaacc	cctgcaacct	tccctagccc	cctcaataga	tgagcaggtc	2040
aggctgtggc	ccttacctca	cccgcagttc	tcgccagtgt	ctgcagccgg	ctcacctctc	2100
tccgcttctt	gcacatcact	ggcctgtgtg	tgctgcttgc	tcctgtttctg	ttcgcttgct	2160
cccgttccgt	tcggcttttg	ctttgcgtta	gggtgaagac	cctagcgtcc	agctccccctc	2220
aacgctatat	tttgacacta	aaaaagaagg	tttctaaatt	gtaggagcag	gatggaaata	2280
ctttgctgcc	cttgccatct	tttaggatgg	gccccagga	gactgaggte	ttcctggggc	2340
ctcattgctg	cttategtac	cccccatcac	ctgcacatgg	gacagaccgg	gctggaggggt	2400
gaccttggct	gtgtacgtcc	cagcaaaaaga	gctctggccc	gcctctcgct	gtgccctgaa	2460
gggggatgaa	gggcgatgcc	tcgcccagg	ctttgggctg	ctgcactgca	tgctgggact	2520
gctcctactc	tctgtcccac	ccctcaccca	gctgtggtcc	ggctttggga	gagtgggtgaa	2580
ttgcgctgcc	cgaactcgga	gcggagcagg	gtagggaccg	tgtacagctt	gataaccctt	2640
aataaaaaagg	gagtttgacc	agaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2700
aaaa						2704

<210> 379

<211> 1225

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1214)

<223> n equals a,t,g, or c

<400> 379

ggcacgagcc	gggtcggcgc	tcctgcctcc	ctgcagggag	ctgcttatgg	gacaccgctt	60
cctgcgcggc	ctcttaacgc	tgctgtgtgc	gccgccaccc	ctgtataccc	ggcaccgcac	120
gctcgggtcca	gagtcggtcc	cgcccccaaa	acgatcccg	agcaaactca	tggcaccgcc	180
ccgaatcggg	acgcacaatg	gcaccttcca	ctgcgacgag	gcactggcat	gcgcactgct	240
tcgcctcctg	ccggagtacc	gggatgcaga	gattgtgcgg	acccgggatc	ccgaaaaact	300
cgcttcctgt	gacatcggtg	tggacgtggg	gggcgagtac	gaccctcgga	gacaccgata	360
tgaccatcac	cagaggtctt	tcacagagac	catgagctcc	ctgtcccctg	ggaagccgtg	420
gcagaccaag	ctgagcagtg	cgggactcat	ctatctgcac	ttcgggcaca	agctgctggc	480
ccagttgctg	ggcactagtg	aagaggacag	catggtgggc	accctctatg	acaagatgta	540
tgagaactttt	gtggaggagg	tggatgctgt	ggacaatggg	atctcccagt	gggcagaggg	600
ggagcctcga	tatgcactga	ccactaccct	gagtgcacga	gttgctcgac	ttaatcctac	660
ctggaaccac	cccgaccaag	acactgaggg	aggggtcaag	cgtgcaatgg	atctggttca	720
agaggagttt	ctgcagagat	tagattttcta	ccaacacagc	tggctgccag	cccgggcctt	780
ggtggaagag	gcccttgccc	agcgattcca	ggtggaccca	agtggagaga	ttgtggaact	840
ggcgaagggt	gcatgtccct	ggaaggagca	tctctaccac	ctggaatctg	ggctgtcccc	900
tccagtggcc	atcttctttg	ttatctacac	tgaccaggct	ggacagtggc	gaatacagtg	960
tgtgcccagg	gagccccact	cattccaaag	ccggctgccc	ctgccagagc	catggcgggg	1020
tcttcgggac	gaggccctgg	accaggtcag	tgggatccct	ggctgcatct	tcgtccatgc	1080
aagcggcttc	attggcggtc	amcgcacccg	agaggggtgc	ttgagcatgg	cccgtgccac	1140
cttggtcccag	cgctcatacc	tcccacaaat	ctcctagtct	aataaaacct	tccatctcat	1200
aaaaaaaaaa	aaanaaaaaa	cttga				1225

<210> 380

<211> 1324

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (4)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1241)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1288)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1323)
 <223> n equals a,t,g, or c

<400> 380

gcnncccgga	attcccggtt	cgacccacgc	gttcgcccac	gcgtccgttc	acaggtacag	60
tctctataac	tataaaatcc	aggaaatgag	agtcccatta	gggttttaaat	cactatttga	120
ttaaatgttt	caatcaaacc	cattttgttaa	tggtttatat	gcacacttac	ctaaaatgta	180
gtattattca	agagctatga	ttgctgtatg	taatgtaatt	tagttaaaat	ggatgcaaatt	240
tcatatgatt	ccagttacat	atgaacttaa	aattagatgt	ctgctgcttt	ttgtatcatt	300
ttccagaaaa	atgagtcaac	aaccaattag	gaaactgtac	cagtcaactc	ttgattacaa	360
attgacagaa	accattaata	acaaagcaac	acagtatgag	tataatacac	caaaaggaac	420
ataggtagtg	tactactggg	cttggttttc	agctgaggcc	tcaatggaac	tttgtgagtc	480
tcctcctcta	cttcacttcc	tttgccctca	gtttgaaatc	cactgggtca	gagtcaggga	540
tttgaacccc	tcgtggccct	cctgaatcag	gttgcagtat	aatttcgttg	acactttctc	600
ccaatcccca	agtatagcaa	taactctact	ttcccccaag	aggaacaaga	aaacacaata	660
acacattaac	aacagtgaca	atctttttat	ttccctgktt	acttacggca	ttaaaactcc	720
aaactcgtac	agccttaatt	tccaartcaa	tgcaatatta	ctgtgtctct	tggtagagaa	780
ttcccctttt	cttggtgcta	tgctatcaga	gtccaaaatc	aaaaggacag	aaagcagaca	840
attagaatgt	gtcaataagt	gtaatctcaa	aggcttgcat	cccagtttcc	agtcctagga	900
ctccagacgc	atatatttta	gctaaggggg	taaaagaatg	ccatgtggta	gtcacttatt	960
cagaacataa	actgtattct	gcaggacagt	acctcaaatt	tgcaagctat	tgactctgaa	1020
tgaagctcat	ctgagttttc	atggagtagt	caatacccac	aaatcccttg	aacattagct	1080
cattgctttg	tttctctata	aagttatttc	ctttaaactg	aagcaacttt	gtgtgggata	1140
ccatgccctt	gcatatggta	gacaatctat	agatagagca	aggacagaga	aaaatgatca	1200
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaagggcggc	nactatagag	gatccctcga	1260
ggggcccaag	cttacgcgtg	catgcgngt	gtttacctca	aatcaactat	agagagtgtc	1320
ccnt						1324

<210> 381
 <211> 1500
 <212> DNA
 <213> Homo sapiens

<400> 381

atggactgcc	gtgagcccag	accttaaacy	taaacattca	gcttcgcagg	tactttgggc	60
tgcacacgct	tctccggacc	caaaagatgc	acatgctttt	cagaaaccgt	aagtttacct	120
ggggctgtaa	aaccgcacat	cgcgactttg	caccgtgcac	acgcttgccc	cgatgtgaga	180
tttcccctgg	gttcgcgctc	gggtccgctt	cttaaataca	ctgcctcagc	gggtgtggatg	240
gcacagagct	gtggcagccc	tactgaaacc	ttaaacaggc	ttcctggggg	cataaacatg	300
gataccgaga	cttagatcac	ctcccacaac	ttaaacgtac	cccttcactc	cactgccttc	360
gccccttcct	gcagcattcg	catctagtgt	ttcaaaaagt	ctttccgggt	cctcagacat	420
gcaccccaag	gttttaaaacc	tcacgtgcaa	gtactagatg	ggcttccttg	tgcaataggg	480
atgtcaggcg	cgcagttttg	cacacgattg	ccaagatgtg	agattttact	taggttgcac	540
cttaaccgtc	gttttttaaat	atgategtcc	catcttgatg	tgctgtcctc	gctgtggaag	600

gtatccctgg	gttttaggca	agcatatgtg	ttctttacta	tggtccaga	tcccagcata	660
tttgaagtcc	tgagtcaacc	tgctctccta	gacaagcaga	cattaagtat	gtcgcttggg	720
ctcttaagtg	cgttctcctg	actttttacc	atctttgtgg	cagtaaagtc	atacgtgtca	780
ctgtatatgc	ggactagata	cctcagggtcc	cagcgccata	aacaacttgt	atgttgtaag	840
tgtaccctca	tctcgaaagt	cacctccagc	tgtgcgtttt	aactcatctc	agatgctgga	900
tgtccggtgt	ggtgcctgaa	gcccccgggg	caacatccac	tctctgtcca	actcattcta	960
acgccaagat	actcagggtt	tctatctgat	cttctgacga	ctgccccaaa	gtcagaatca	1020
cctgcgtggg	tgaagaatca	cctgcgtggg	tggagaatca	cctgcgtggg	tggagagcaa	1080
gtttgttcag	gtttttctct	ttttaagcac	tcacaaaata	aaattttttg	tgtttgctag	1140
tattctggaa	ggaaagatct	ccttggtgctt	catagaaaat	ttggaaaata	cctgtttgta	1200
ataagataaa	aataaatcac	ccttataatt	tgttttcccc	cgccctggagg	cgccatttac	1260
ggggaaactc	tcgtgggttt	cctgctgcca	ggctgtttgc	ggagctttcc	cttgtttgct	1320
ttgagatgtt	tttgggttta	aaaaacaata	agtgaggtca	ggcttgggtg	ccctcgtctg	1380
taatcccagc	actttgggag	gccgaggcgg	gcggatcact	tgaggtcagg	agttcagagc	1440
cagtcctggc	aacatggtga	aaccccatct	ctactaaaaa	aaaaaaaaaa	aaaaactcga	1500

<210> 382

<211> 776

<212> DNA

<213> Homo sapiens

<400> 382

ggcacgagtg	aagtagaaca	tgcattgagaa	agaatgcaga	aatcatgaat	aaacagctcc	60
agaaagggat	cacgccaac	taaccagcac	ccgaattcag	agcccaccag	cccccggtat	120
cccggccacg	tccactctga	ccccatgcct	gcaaggatag	ggtctctatc	gtgacttcta	180
accccaccag	gtacttttgc	ctcttttttag	aaatggaatc	atacagtctg	tactcttttg	240
tgcctgggtt	gttttggtta	acattgcgtc	tgggagtttt	atctctgtcc	aggggttggcg	300
aaccccagct	tacaagccaa	atctggtcct	ttgcctgttt	tcatatggcc	tgtgagctaa	360
ggatggattt	tatgttttta	aatagtgtcg	ggggggggcg	ggggggggag	gaaagaatga	420
tattttgtga	cgcgtagaaa	ttatatgaaa	ttcaaatttg	tgtccacaaa	ttgactgggc	480
atggtggctc	atgcctgtaa	tcccagcact	ttgtggggcc	gaggtgggtg	ggtcacttgg	540
ggccagaagt	ttgtaccag	cttgaccaac	atggttgaaa	ccccatctct	actaaaagg	600
acaaaaaat	agctgggtgt	ggtggttgat	gcctgtaatc	ccagctactc	aggtggctga	660
ggcaggagaa	tcacttgaac	ccgggaggca	gagattgcac	tgagccaaga	ttgtgccact	720
gtacttcagc	ctggatgaca	gagtaacact	gtatctcaaa	aaaaaaaaaa	aaaaaa	776

<210> 383

<211> 543

<212> DNA

<213> Homo sapiens

<400> 383

ggcacgagct	aagccctgca	tccatgatga	ggccggggca	ggtctccctc	ctgggtcctg	60
atgctgtttc	tgtgctcggc	tctggcttgg	gcctcagccc	tggcaccagc	tctggccgca	120
accctgaccc	tggctctggg	ccgggcactc	tgccggatcc	cagctccaaa	cccctccccg	180
gctccagatc	cacccccagc	cctactcctg	tggaaatctc	tgacccaaag	gctggggcacg	240
acgttggtcc	cgaccttgtg	cccagcccag	accttgatcc	tgtgcccagc	ccagaccctg	300
atcctgtgcc	cagccctgat	cccaaccctg	tgtcctgccc	tgaccctgtg	tctcccactc	360
gtggcactgt	cagcccagcc	ctcccctacc	gcgagagtc	agagtgggta	caggagcaag	420
gggcactgct	ggggcctgat	ggctgaagga	gacgccggca	tcctcggggg	cctgggggaag	480
ttgtgtgttg	tgcagtcagt	aaaatcctcc	cactgccaaa	aaaaaaaaaa	aaaaaaaaaa	540
aaa						543

<210> 384

<211> 1681

<212> DNA

<213> Homo sapiens

<400> 384

gtcagaatca	ccatggccag	ctatccttac	cggcagggct	gccagggagc	tgcaggacaa	60
gcaccaggag	cccctccggg	tagctactac	cctggacccc	ccaatagtgg	agggcagtat	120

FOI b7D - 28005560

09505660
230150

```

ggtagtggggc taccctctgg tgggtggttat ggggggtcctg cccctggagg gccttatgga 180
ccaccagctg gtggaggggc ctatggacac cccaatcctg ggatgttccc ctctggaact 240
ccaggaggac catatggcgg tgcagctccc gggggccccc atggtcagcc acctccaagt 300
tcctacgggtg cccagcagcc tgggctttat ggacaggggtg gcgccccctc caatgtggat 360
cctgaggcct actcctgggt ccagtcgggtg gactcagatc acagtggcta tatctccatg 420
aaggagctaa agcaggccct ggtcaactgc aattgggtct cattcaatga tgagacctgc 480
ctcatgatga taaacatggt tgacaagacc aagtcaggcc gcatcgatgt ctacggcttc 540
tcagccctgt ggaaattcat ccagcagtggt aagaacctct tccagcagta tgaccgggac 600
cgctcgggct ccattagcta cacagagctg cagcaagctc tgtcccaa at gggctacaac 660
ctgagccccc agttcaccca gcttctgggt tcccgtact gccacgctc tgccaatcct 720
gccatgcagc ttgaccgctt catccagggt tgcacccagc tgcaggtgct gacagaggcc 780
ttccgggaga aggacacagc tgtacaaggc aacatycggc tcagcttcga ggacttcgct 840
accatgacag cttctcggat gctatgacct aaccatctgt ggagagtgga gtgcaccagg 900
gacctttcct ggcttcttag agtgagagaa gtatgtggac atctcttctt ttcctgtccc 960
tctagaagaa cattctccct tgcttgatgc aacactgttc caaaagaggg tggagagtcc 1020
tgcatcatag ccaccaaata gtgaggaccg gggctgaggc cacacagata ggggcctgat 1080
ggaggagagg atagaagttg aatgtcctga tggccatgag cagttgagtg gcacagcctg 1140
gcaccaggag caggtccttg taatggagtt agtgtccagt cagctgagct ccaccctgat 1200
gccagtgggt agtggttcac ggcctgttac cgttagtacc tgtgttccct caccaggcca 1260
tcctgtcaaa cgagcccatt ttctccaaag tggaaatctga ccaagcatga gagagatctg 1320
tctatgggac cagtggcttg gattctgcca caccataaa tccttgtgtg ttaacttcta 1380
gctgcctggg gctggccctg ctcagacaaa tctgtcctct gggcatcttt ggccaggctt 1440
ctgcctcttg cagctgggac cctcacttg cctgccaatg tctgctcggc ttcagtctcc 1500
aggagacagt ggtcacctct cctgccaat acttttttta atttgcat tttttcattt 1560
ggggccaaaa gtccagtga attgtaagct tcaataaaag gatgaaactc tggaaaaaaa 1620
aaaaaaaaaa aaaaaaaaaa aaaaaaactc gtaggggggg cccgtacca atcgctcat 1680
c 1681

```

<210> 385
<211> 728
<212> DNA
<213> Homo sapiens

```

<400> 385
ggcacgagaa taaaaaaaaa ttagtcgtgg tgccacttgc ctgtgggtccc cactgcttgg 60
gaggctgagg tgggagaatt gcttaagcct gagagttgga ggctcagtga gccatgatca 120
tgccactgca ctccagcctg ggtggccatt gaattctgcg tggattgcct cagtttgcct 180
tgtcagccaa ctccactgg ctgccttggc actgccatga cagcacagct ccacaccaga 240
gctgggggtt ctcttcagtc ctgggtaccc cttggcagag ggatttgcctg aggaaaatta 300
ggtatccttc ctagccctcc acacacttcc aaaccagggc tgcggatctg atggatgcca 360
ggaagacagc cttgggctga gactgacatc actgcaagag ttgagagcca gcgtctaaag 420
tgtccacggc atcctgggag gttttatcct tgggtgactct aatggtagat ttttgtccac 480
cttgttctat ttgcttttgt ttgtttttga tttttctggt ttaaaatttt aaggagagat 540
ggggtttcac cgtgttgccc aggctgggtct caaactcctg agctcaagcg atctgcccac 600
cttggcctcc caaagtgtct ggattatagg tgtgagccac cgcattccagc ccacattggt 660
ctatttgtat ttcatgaaag cagttctgaa tgagagtaaa tcaaaaaaaaa aaaaaaaaaa 720
aaaaaaaaa 728

```

<210> 386
<211> 2301
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (36)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (237)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (250)

<223> n equals a,t,g, or c

<400> 386

aattcggcac	agagaatagc	caggcaggac	agaggnaaac	tccaccagta	ttgagcccag	60
gcttctgtgg	gagaragtgg	agaagctggg	gcccagacct	ggcagtggca	gctcctcagg	120
gtccagcaac	tcaggatccc	agcccgggtc	tcaccctggg	tctcaragt	gctccgggga	180
acgcttcaaa	gtgagatcat	catccaagtc	tgaaggctct	ccatctcagc	gcctggnaaa	240
atgcagtgan	aaaaacctga	agataaaaag	gaagttttca	gacccctcaa	gcctgctggc	300
gaagtggatc	tgaccgcact	ggccaaagag	cttcgagcag	tggaagatgt	acggccacct	360
cacaawgtaa	cggactaytc	ctcatccagt	gaggagtctg	ggacgacgga	tgaggaggac	420
gacgatgtgg	agcaggaagg	ggctgacgag	tccacctcag	gaccagagga	caccagagca	480
gcgtcatctc	tgaattttgag	caatggtgaa	acggaatctg	tgaaaacat	gattgtccat	540
gaygatgtag	aaagttagcc	ggccatgacc	ccatccaagg	agggcactct	aatcgtccgc	600
cagagtacag	ttgacaaaaa	gcgtgccagc	catcatgaga	gcaatggctt	tgccggctgc	660
attcacctct	tgccagatct	cttacagcaa	agccattcct	cctccacttc	ctccacctcc	720
tcttccccat	cctccagcca	gccgacacct	accatgtccc	cacagacacc	ccaggacaag	780
ctcactgcta	atgagactca	gtccgctagt	agcacactcc	agaaacacaa	atcttcctcc	840
tcctttacac	cttttataga	ccccagatta	ctacagattt	ctccatctag	cggaaacaaca	900
gtgacatctg	tggtgggatt	ttcctgtgat	gggatgagac	cagaagccat	aaggcaagat	960
cctacccgga	aaggctcagt	ggtcaatgtg	aatcctacca	acactaggcc	acagagtgc	1020
accccgga	ttcgtaaata	caagaagagg	tttaactctg	agattctgtg	tgctgcctta	1080
tggggagtga	atttgctagt	gggtacagag	agtggcctga	tgctgctgga	cagaagtggc	1140
caagggaagg	tctatcctct	tatcaaccga	agacgatttc	aacaaatgga	cgtacttgag	1200
ggcttgaatg	tcttggtgac	aatatctggc	aaaaaggata	agttacgtgt	ctactatttg	1260
tcctggttaa	gaaataaaat	acttcacaa	gatccagaag	ttgagaagaa	gcagggatgg	1320
acaaccgtag	gggatttgga	aggatgtgta	cattataaag	ttgtaaaata	tgaaagaatc	1380
aaatttctgt	tgattgcttt	gaagagtctt	gtggaagtct	atgcgtgggc	accaaagcca	1440
tatcacaaat	ttatggcctt	taagtcattt	ggagaattgg	tacataagcc	attactggtg	1500
gatctcactg	ttgaggaagg	ccagaggttg	aaagtgatcf	atggatcctg	tgctggattc	1560
catgctgttg	atgtggattc	aggatcagtc	tatgacattt	atctaccaac	acatgtaaga	1620
aagaaccac	actctatgat	ccagtgtagc	atcaaaccct	atgcaatcat	catcctcccc	1680
aatacagatg	gaatggagct	tctggtgtgc	tatgaagatg	aggggggtta	tgtaaacaca	1740
tatggaagga	tcaccaagga	tgtagtctta	cagtggggag	agatgcctac	atcagtagca	1800
tatatctgat	ccaatcagac	aatgggctgg	ggagagaagg	ccatagagat	ccgatctgtg	1860
gaaactggtc	acttggatgg	tgtgttcctg	cacaaaaggg	ctcaaagact	aaaattcttg	1920
tgtgaacgca	atgacaagg	gttctttgcc	tctgttcggg	ctgggtggcag	cagtcagggt	1980
tatttcatga	ccttaggcag	gacttctctt	ctgagctggg	agaagcagtg	tgatccaggg	2040
attactggcc	tccagagtct	tcaagatcct	gagaacttgg	aattccttgt	aactggagct	2100
cggagctgca	ccgagggcaa	ccaggacagc	tgtgtgtgca	gacctcatgt	gttgggttct	2160
ctccccctct	tcctgttcct	cttatatacc	agtttatccc	cattcttttt	ttttttctta	2220
ctccaaaata	aatcaaggst	gcaatgcagc	tggtgctgtt	cagattctaa	aaaaaaaaaa	2280
aaaaaaaaaa	aaaaaaaaaa	a				2301

<210> 387

<211> 281

<212> DNA

<213> Homo sapiens

<400> 387

ggcacgaggg	gagtgggaat	atgcgtgtgt	gggtgggaat	cggtaagaaa	tgcacctagc	60
ttttcatatt	gtgtttattc	tccaggctat	tgcttgcttc	agctgcagcc	tgctgtgtct	120
ggctgctggg	gtcgatagcc	ttttgtcgta	ataggcagag	atgacttgca	tccagcttt	180
ccaccaacca	aattcaaaaca	ttcactgctt	atttgttaca	gactgtaatt	attaaagtcc	240
ctgagagctg	ttttctcccc	ttaaaaaaaa	aaaaaaaaaa	a		281

<210> 388

<211> 1061
 <212> DNA
 <213> Homo sapiens

<400> 388

ggcacgaggg	acattgcccc	cccgcctgct	gaggctgttc	cttcctgctg	cacttgagca	60
gcctcatctt	ccttcattct	ctctcatgtt	cacttctctt	tgcctggacc	aatggggaaa	120
aaagtgcaca	gaatgagatt	atgtgactac	agcaattctg	agttagcttt	gattgctctg	180
cagtaaaatt	aagggaccat	atctttctca	tgcacatgat	atatagtttc	aaatatagat	240
ctgtacatac	gtgatgatga	aaagttcttc	aggatgagga	tgtatcagag	agtgtgaatt	300
gaggccagtc	ttctgttttc	tcccaaactc	ttaacagatt	gcatactctc	atgcaaactc	360
tttcatgtat	tccttggtata	ctacctatag	aaaggtggga	cttgggaggg	tcacttacia	420
cctctgtgat	cttattttct	cctccagggg	ctccttgaat	agagttttcc	cccattttac	480
tggccaaggc	tgcagttaga	gctgtggttt	gtcctgcagg	ggatatttgt	cagtgtctgg	540
agaaatttag	gttaacgcga	ctggagaagt	gctattggca	tctagttagt	ggaggccagg	600
gatgctgcta	aacaccccg	ggtacacagc	agaccaaaga	atgatctagc	cccagatgcc	660
agtagtgctg	argttggaaa	actcttaagt	tagtaaatat	acaactgata	ggaaaaacat	720
gaagtttcaa	taattaaaaa	gctttgcacg	aaagtttatt	acagggctgg	gcatgggtgg	780
ttaggcctgt	aaatcccarc	actttggggg	gccgaggtga	gaggatcact	tgagcttagg	840
aatttgagac	ctgtgttggc	aacatagtga	gaccccatct	ctaataatata	tatatctggg	900
catggtggct	cctgcctgta	gtcccagcta	cttgggaggg	ttgaagtggg	agaatggctt	960
gagtcacgga	ggttgaggct	gcagtgaagg	atgattgcat	cactgtactc	cagcctgggc	1020
gacagagcaa	gaccctgtct	ccaaaaaaa	aaaaaaaaa	a		1061

<210> 389
 <211> 595
 <212> DNA
 <213> Homo sapiens

<400> 389

cacgagcggc	acgagagcaa	gcaagacaca	actgagacag	atgtaccagg	tgaaaaaaat	60
cttcagtatg	gatacacatg	ggatattctga	aggctacaat	gaatggttta	gtctttgaca	120
taaggaggat	gaacatatta	tttatactgt	gtaatcta	ctggcttcta	tggggaaagc	180
aacatgtaca	taagtgaatt	ttctacatga	agtgggctac	ttctgatttt	aatcaaagct	240
ataaaataga	ttgtatat	cactagcttc	ttaaagtaac	tcttccattt	tcatttatct	300
ctaaaaacag	ttaacttctt	gtgctctagg	aaatgcacca	ataccaaagg	tcaatgtgga	360
aatatgggca	tgtttgcccc	tatgctgtgt	ggtctctaga	tttctatatt	tgctttgctt	420
ttgtctgctc	tagtaatctc	cctccttttg	atctgtggcc	tgggaaaatg	tggtttcttt	480
gtatttcaaa	taaaagtaaa	atagtttttt	gagtggttca	ctcaagagta	aaaaaaaaa	540
aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaa	595

<210> 390
 <211> 349
 <212> DNA
 <213> Homo sapiens

<400> 390

ggcacgaggt	caaaactaag	aaattactac	tgctgtaaga	ctgctaacta	aactatgcat	60
attcgaattg	caccagtttt	tccattaatg	tccttttgct	gttctaggac	agcatattga	120
gtttagtgc	acttgccctt	atgctttatt	ttaatgccct	tgaattctca	tctgttatta	180
gtgagtctct	tatttatctc	tttggtttga	gcttccttct	ctgctgttgg	tatgttgctt	240
taatggagag	gttgcacaa	ccttcatttt	tttttttgag	acagcctggg	caacagaggg	300
agacttcac	tcaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaactcgag		349

<210> 391
 <211> 1019
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE

<222> (1)
 <223> n equals a,t,g, or c

<400> 391
 ntgggtgggat ttttgtataa agtaagagat aaggatccag tttcattctt ctacatgttg 60
 cttgccagtt ttcttagcac catttattga atagggtgtc ctttccccac tgtatgtttt 120
 tgtatgcttt gtcaaagatc agttggctat aagtatttgg ctttatttct ggggtgtctg 180
 ttctgttcca ttgggtctatg tacctgttgt tatactagcc ccagctatt ttggtaacta 240
 tagcattgta gtatattttg aagttgaata atgtgatgcc cccagatttg tyctttttgc 300
 ttagtactgc tttggctatt tgggctcttt tttggtgcc tatggatttt aggattgttt 360
 ctgattgaca aaggatattt gatgggagtt ctgtgaagag tgatgggtgt atcttgataa 420
 gaactgcatt gaactgttag cttgcttttag gcagtatggt cattttcaca atattgattc 480
 taccatcca tgagcatggg atatgtttcc atttgttkgt gtcactatg atttcttca 540
 atagtgtttt atagtttttc ttgtagagct attttacctc cttggttaag tataaccata 600
 agtattttat tttatttttt ttgcagctgt tataaaagga atggaattgt tgatttgatt 660
 cttagcttgg ccgttggttg tgtatagcag tgctactgat ttgtgtacat tgattttcta 720
 tctggagaat ttactgaatt catttattag atctaagagc tttttggatg agtctttaga 780
 gttttctagg taaatgggtca tatcattggt ggacagtgc agtttgacct ctttttttcc 840
 aatttgatg ccctttcttt tctgtctgat tgctgtggct aggacttcca ttactatgtt 900
 gaatagaagt ggtgaaagtg ggtaaccttg tcttgttcca gttttcaggg gcgtaggcaa 960
 agaattcatg actaagaacc caaaagcaaa tgcaacaaaa aaaaaaaaaa aaaactcga 1019

<210> 392
 <211> 214
 <212> DNA
 <213> Homo sapiens

<400> 392
 ggcacgagct cgtgccgaat tgggcacgag aggacggagg cttttggacc ctcggacccc 60
 atcccactca gccaaagtgc tttctgtgtc tggggggagg aggggatgat atccgtgttg 120
 ttcgatgtat tatttttaag ctccgtgagt gcgtgggtca gtgtctgcat gaagtggaat 180
 aaactgccca ccgccaaaa aaaaaaaaaa aaaa 214

<210> 393
 <211> 554
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (16)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (26)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (94)
 <223> n equals a,t,g, or c

<400> 393
 aggtcactca ttaggnaccc ccaggnntta cattttatgc ttccggctgg aatggtgttg 60
 gaattgtgag cggataacaa ttccacacag gaancagcta tgaccatgat tacgccaaag 120
 ctcgaaatta accctcacta aagggaacaa aagctggagc tccaccgagg tggcggccag 180
 ctctagaact agtggatccc ccgggctgca ggaattcggc acgagctact aataattatt 240
 acattttgac taccacaact caacggctac atagaaaaat ccaccctta cgagtgcggc 300
 ttcgacccta tatccccgc ccgcgtccct ttctccataa aattcttctt agtagctatt 360
 accttcttat tatttgatct agaaattgcc ctctttttac ccctaccatg agccctacaa 420

acaactaacc	tgccactaat	agttatgtca	tcctctttat	taatcatcat	cctagcccta	480
agtctggcct	ataaaaaaaaa	aaaaaaaaaa	ctcgaggggg	ggccccgkac	ccattsgcca	540
aakggggggg	ttta					554

<210> 394
 <211> 1273
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (37)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (45)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (338)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (820)
 <223> n equals a,t,g, or c

<400> 394						
ctcgagtttt	tttttttttt	ttttgttatt	gcaggtnagc	atgtnacatt	atttgtgtgt	60
tgccttcctt	actagaacat	cagctccaca	agggcaggaa	tttttgcctg	ttgtcaccac	120
gatgtccctg	gcacccagta	tgttcttggg	gtctccattg	atgatgcagg	gatgtgtgga	180
tatggggcag	tggactgtga	gcatgtgatg	agcatgtgac	ccagccccta	gtgaccgcac	240
cacatggcac	aggttgctta	taaaaacat	tttaaattaa	aaaagggagg	aagcatcagt	300
gcacacagat	ggggacacag	gggcagaggg	ccagcccnaa	gtacagtgtg	gtcaccccac	360
agcccagtgg	rgccagggca	gactcccttc	gcagcacaga	cagctgaggc	ccgggtgctg	420
gttcctctag	gtacagcttt	ggtccttgtg	ggctcagagg	tctgcctttc	ggaaacttgc	480
tctgttcaag	gagttcctga	ggccgggtgg	ggtgggtgcc	atcagctggg	gcaggcgctg	540
ggtaagcagg	ggctgcagag	cctcccgcag	gcggcagtag	ttgcgctcca	gctcacggtg	600
gtactccttc	tgggtccggcc	caatcagggc	yttatttttc	cgcagcgcat	cctcacattt	660
cttgacagaag	tccttgaagc	agagccgcaa	tttgttgtga	tgccggaaga	rcttggggtc	720
ttccgggatc	tctgctaaaa	acacctgggc	cacctccact	ggcgtgagca	ccgtctcttc	780
ccggtggcac	acacgggatg	gagtcctgat	gtaggggaan	gcktgggtcg	tgctgaagca	840
gcgtcttacg	cttgtgttgc	tcgggcagct	ccccgtgtgc	gcgcccattc	ggcgtgaacg	900
gcgtgcagaa	caggaatgtg	cgaagcccat	agttgcgggtc	aaagtaggtc	acccggtcct	960
tgagctcgta	ggtatcaaag	tacggttcca	catacgtgat	ctggatgtag	gccttttgtg	1020
agtcaagctt	ggacttgtcc	acagggttag	agtctttgat	aatctcaacg	acgtcgtcgc	1080
caaattcttc	cgtgtagaac	tcctccagcc	ggtgtgagat	ctctgccagc	ttcgtgatcg	1140
atggctcctt	gtacacaaac	tcctgctcat	ccaggtcacc	gaagtgggcg	ccgtagaagc	1200
ccacgcggaa	atacgtcccg	aacacgcgct	cccagccgga	actctggtgc	atgatcttgg	1260
tgaaggctgt	gcc					1273

<210> 395
 <211> 882
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (17)

0950082-094201

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (40)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (880)

<223> n equals a,t,g, or c

<400> 395

tggtaaatat	tgcaaantac	tccnttacta	attggnacn	aaagctggag	ctccaccgcg	60
gtggcgccg	ctctagaact	agtggatccc	ccgggctgca	ggaattcggc	acgagcccc	120
ttcctgcctc	gggctgtgca	tctctctctg	gaacgttctt	tgcggtctcc	tcaccgccac	180
ttttcttcac	acctcaacat	aaatgccacc	cccttgagg	ggccttcctg	gtttggctga	240
gcctggctcc	atgtgggctc	tgcatgggcc	cctggatggt	accttggttg	tagctgagtg	300
cggatgtggc	ttgtccacag	gaggctgatg	tccctgragc	tgtgacttgg	tctacctggg	360
cctggacceca	cgtggccggc	ccggggcctg	tgcgtggcca	gctcttgac	actgccttag	420
agctgggtgtg	gcttgttgaa	ccccgttgca	gacgcacacg	cacgtgggtc	cccattggctc	480
ctcgggacat	ggaggctgcc	crsgctcagg	gaagagtcct	tggtgggacc	tccaggactc	540
ttcccagccc	ccgcctccct	cctggggcct	ccagggcaga	aagccccctt	cccgggcagg	600
aggacaggggt	gtggatatac	aggctgggag	ggtctgtggg	cagcagccga	ggcccagggt	660
gggggagcct	cacctaggat	gaggctaggg	ctggcagaag	atccccacag	aggagccagg	720
aggacccccac	agtcactcta	gctcccagg	cctggagggtg	caggcgagcc	ccgtgggtctc	780
cgggcagccg	gccctgcccc	actcacctct	cctgcccttc	ccgctgcaaa	aaaaaaaaaa	840
aaaaactcga	ggggggggccc	ggtacccaat	tcgargttcn	ct		882

<210> 396

<211> 1648

<212> DNA

<213> Homo sapiens

<400> 396

ggcacgaggt	gacgggagca	attagagagc	agtagcttct	gatgaccac	gtgtaggaat	60
gaaggatggg	gagaactcgg	cccttacctc	cttctgtctt	ccatccatgg	ggcttggagg	120
gtctggagag	cttcatgggtg	ggcttatctt	catttgtgca	gaggtggctg	ggaagctcag	180
gaaccacagg	cttttgtttt	gagtcaattg	gctttctctc	tctcttgag	ggaagtacta	240
catggccact	atgacatgg	tcacattctc	aacagcactc	accatcctta	tcatgaacct	300
gcattactgt	gggtccagtg	tccgcccagt	gccagcctgg	gctagggccc	tcctgctggg	360
acacctggca	oggggcctgt	gcgtgcggga	aagaggggag	ccctgtgggc	agtccaggcc	420
acctgagtta	tctcctagcc	cccagtcgcc	tgaaggagg	gctggcccc	cagcggggccc	480
ttgccacgag	ccacgatgtc	tgtgcccgca	gaagccctac	tgcaccacgt	agccaccatt	540
gccaatacct	tccgcagcca	ccgagctgcc	cagcgctgcc	atgaggactg	gaagcgctg	600
gcccggtgtga	tggaccgctt	cttcttgccc	atcttcttct	ccatggccct	ggtcatgagc	660
ctcctgggtgc	tgggtgcaggc	cctgtgagg	ctgggactaa	gtcacaggga	tctgctgcag	720
ccacagctcc	tccagaaagg	gacagccacg	gccaaagtgt	tgctgggtctt	tgggcccagcc	780
agtctctccc	cactgtctct	aagatcctga	gacacttgac	ttcacaatcc	acaaggaggc	840
actcattgtc	tacacaccct	aactaaagga	agtccagagc	ctgccactcc	cctaattcca	900
aaaaaaagag	gaactctaca	aaggccaaga	tcacagagta	cagtcttgga	gggacagaat	960

tgtttgtgct	gggtattgga	gctctcagtg	gggagcacat	gggttataat	gagaaactga	1020
actgtactgc	tgcatttcct	gtcttccttc	ctagggtggc	gctttgcagg	gctttggctg	1080
ttacctttcc	ctgctgaggg	gctcagggaa	aagggtcggg	gattctcagt	cgagtttcca	1140
gagcaggagg	ccctacagac	atttggtccc	aaatccctga	ctcaataaag	taagcgtgta	1200
cctagcacct	cctcgatgcc	ctgtgttacc	catgaggtct	gtggtagtgg	aagctggggg	1260
tccaggtctg	tctacttcag	gtctcatggc	cgctggcgca	agtccaagtt	caaagcctga	1320
gaacctgaag	ttctaattgc	caatggtaag	agaaggatgt	cccagctcca	ggaaagagtg	1380
tgaatttgcc	tttcccttat	ttttttgtcc	tctccatgcc	ctcccacatt	gagagtggaa	1440
cttgccactg	agtccaccaa	ctcacacgcc	aatctcctgc	tgcaaaccct	cacagacaca	1500
tccagaaata	atgctttccc	agctgtctgg	gtattgctgg	tgtccatggg	ggtgggttat	1560
cagaacttat	taatgtcact	gtcactaaag	ttggatatata	acccccct	gctaaatttg	1620
actagcttaa	aaaaaaaaaa	aaaaaaaaa				1648

<210> 397

<211> 762

<212> DNA

<213> Homo sapiens

<400> 397

ggcacgaggt	gacttcgctc	atcacgggtca	gtcatttcctt	ctcctttcca	gggtgctggg	60
ggctgggggt	ccctggccca	aggggtccagc	ctcctctcac	cccattccag	gtggcatact	120
gcagtcctgg	tctttctccc	ctccctcccc	acccaagcct	cacctcccca	ccccttgaac	180
ccccatgcaa	tgagcttcta	actcagagct	gatgaacaaa	agcccccca	cccccaatgc	240
ctgcctcctc	actcctccgt	cgtgcctctt	cacacctttt	ggtgctaccc	ctccccagag	300
ttaagcatgg	atgtctcctg	atcccaggct	gggaccctta	ccccacccc	ctttgatcct	360
ttctacttcc	acgggtgaaag	gactgaggtc	ggactacaga	gggaagaggg	acttcccttg	420
actgggttgt	gtttcttttc	ctgcctcagc	ccagctctgc	aaatcccctc	cccctgcccc	480
tcacctcccc	aggetcacct	tgccatgcca	ggtggttttg	ggaccaagat	gttggggggg	540
tgaatcagga	tcctaattgg	gctgccctat	ttatacctgg	gtctgtatta	aaagggaaag	600
tccccctgt	tgtagatttc	atctgcttcc	tccttaggga	aggctgggat	atgatgagag	660
attccagccc	aagcccggcc	ccccaccgcc	aggccatagg	gcataatttg	catctcaaat	720
ctgagaataa	actgatgaac	tgtgaaaaaa	aaaaaaaaaa	aa		762

<210> 398

<211> 1474

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1452)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1453)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1460)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1463)

<223> n equals a,t,g, or c

<400> 398

gggttcgacc	cacgcgtccg	ggtttccaaa	ttatgtttac	tttgatttga	ttatatgttg	60
gtatctccca	aatatagggt	aacttagcta	tttaaatggg	atcttttgac	atttaaaaag	120

```

aattaagtac ctgtcaaadc twgcattgag gttgcagttg aataagataa aagcttagga 180
tgtcaaaaaa taatatagag aaatattata agattttatg attattcttg amgtttttga 240
tgcaaaagga aaatatgctg aatagttctt ccaaaaaata ttatttccct caatatttta 300
tttgtagcca tgtaatttaa agagaacaga aaataactgc aatcaaaagt atgggtttaat 360
atcaatcaaa gtggcacaaac agaattgata agatctttat aacaatcaat tggctgatat 420
taaaatattg attttaattg atcttttcaa taaaatctt tagggcctgt aactcataaa 480
atcagcatcc accacaatat atggtcatta ttgggtttgta agcatagatc accattgact 540
cctacctgga gagacatgtc tatttctaaa aatccagtag tttctttgca ttctcagtag 600
tacacgttgt atatatatat atgtaacaaa tttggtagtt ttcagtatgt gtgatgtcct 660
ttgggggtta tttatcttgc tgggtccatag gaggggtaca ctacccaag aatcaagaca 720
tctgagttct agttctagtt ctagctctgc cactgaagag ccaccttacc tggggcaagt 780
tagccattgt ctcccagtc tgtttaccac ccatgaaagg actcgtcggg ttgatgtttc 840
cattaagctc aatgagtaac tctaattagt actcttgaat ctggattgaa aaacaccatg 900
catctgatga gataattcat aaatgttgcc ccttttttaa atgatacaac cctaaaagtg 960
actgaattgc ccaagtgcct gaacatggca gaggtagtta ctcytathtt gcagttttgtg 1020
cacttaaaaa ttcttacagt gattgttact ttactgggga aaaaagatga ggtgaaactt 1080
cctcccaagg aattaaaata tctgtagaag ccatggcttg cttttataat gtggaaatca 1140
tttgatttgc tgtaattcac gcagatccct ccttttgtca gggggaaatg atttgcacat 1200
tgttcttttt tcataatgct tttacttccg gtttggatca gttgtatgta aatgtacatt 1260
tttgttactt tgctgtgccc gttagaattt atcttccata aagtatttct cccattgagt 1320
ctaattgatg atacttttgc taggtctttc caaaattaaa tttatgtaaa tgtctatttt 1380
atataaaaata tgattaaaat aaaaaaaaaa aaaaaaaaaa aaactcgagg gggggcccg 1440
tacccaattc gnnctatagn canacggggg taca 1474

```

```

<210> 399
<211> 655
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (16)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (20)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (100)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (142)
<223> n equals a,t,g, or c

```

```

<400> 399
ctgaaaacgg ccagtnagcn caacgcaatt aatgtgagta gctcactcat taggcacccc 60
aggctttaca ctttatgctt cgggctcgta tgttgtgtgn aattgtgagc ggataccaat 120
ttcacacagg aaccagctat gnccatgatt acgccaagct cgaaattaac cctcactaaa 180
gggaacaaaa gctggagctc caccgcggtg gcggccgctc tagaactagt ggatcccccg 240
ggctgcagga attcggcacg agggattgtt tttgaacatc acaaatttgt tcttggatag 300
aattttatac attgcttttc atcatatatt tgctcagtta ctctaagaag caaggaactg 360
atcactagtt gggaatctat atgggcctaa acttgagtgt attgatttat tattacatct 420
actaccaaca ttttcttaag catagccttc taaatttttt caggagatta gaataaaggt 480
atacatgcta ctcggtcttc tggtaattct agtgataaac ctttggatga gacaggctcct 540
aatcagcact gaattcttca ataggaggct gtgttacagg agctacagat ttttccctgg 600
awtagcttag gtcattgcct ttacttttaa aaaaaaaaaa aaaaaactcg agggg 655

```

<210> 400
 <211> 1286
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (1232)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1241)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1263)
 <223> n equals a,t,g, or c

<400> 400
 tatagtggag gggaggaaag ggggggtgata ccttgcagta agtaagtcga aatagcatgc 60
 ctgaaaat ttt gaaacagacc attctaacac ccaaggcttg tttataaaat acttgagaat 120
 tacattaatg tggaatcaac agatgcagaa gaataataca taacttttaa aagctttcat 180
 aaataccagc agcaattgta agcaaatcta caaagggttct tgaacctttc tattatatac 240
 aaaactgaaa agtcattaag gagttcaact aatcaggaat taaatgggtca tttatttcat 300
 gcagtatgat ttaaggtatt tcttgagatt ctgggtcaaat gtcataatca gcaaacggga 360
 ttaaaaaaaaa aactcctgcta tcttgagatt attatctaaa taatgggtatt ggagaacttg 420
 tttcctgcta tttggaagag attgttgctt cattgctagt ttgtatttct aacttctaca 480
 gttatagact ccactgtgct ttgtgtctga atttctcagt atagacattt tgtttactgt 540
 atgcttgcac atttattttt aactttggyt gtcttttaaaa ttgcttgagg aaaaatgggt 600
 gtaattaatt tctgctacag aaaagccacc tgggtacgtt tgtctcatca ggattgtttt 660
 aaattctaaa ctataagttt gttcagaggg gcttttgcaa tgatagcaga aaactgtaca 720
 aatgtacagt tagttataga ggttcttggt gaaatgaact taccatctga tgatatgtat 780
 gtacagctgt gtacttgagt ctttttttagt ttacttagaa agactagcag tttgacctgt 840
 taaacaggac tagttcaagt caagaaacta aggttggttg atacacctgg aggcactctgt 900
 tattcagctt atcctttgag tgggtatttg gcacaaatgag gataaaactta tgtgaccac 960
 ttgaatggct gatctaataa tgggtgacatt atgcattctg tacttagtga aatgtcagat 1020
 gaaaataact gatgaataat ttttttgtat taaagggatg ggaaaagaac acatgaattt 1080
 gtaataaag cactatgatc tgcaaacgat ggaatgtttc ataaagatct aaagaaataa 1140
 aggaaacttt aaaacaaaaa aaaaaaaaaa aacycgaggg ggggcccggg acccaattcg 1200
 ccctatagtg agtcgtatta caattcactg gncgtcgttt nacaacgtcg tgactgggaa 1260
 aancctggcg ttaccaact taatcg 1286

<210> 401
 <211> 626
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (37)
 <223> n equals a,t,g, or c

<220>

<221> SITE
 <222> (57)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (58)
 <223> n equals a,t,g, or c

<400> 401
 ccgctctgac tgtgntcccc ggcgcagatt cgcacgnngg aaaccctgtc tctmcennaa 60
 atacaaaaaa attagctgag attacaggtg tgagccacca cccccagcgg tcccaatcca 120
 ttttttagttg ctaattggat tgaggagatc agaccccaac aatggaaaag gcagactctc 180
 tagaggaaaa tactatcaat catcttaagt ctcttttgtt cttgtataca cagttggcat 240
 acagtcaaac gttatatgaa atgcagagaa actggaagat tactgataat caagggaaca 300
 aataggtaat aggagcaaac tcagatgatc cacatgttgc agttagtagt caaggatttt 360
 aacataagta ttataaatgt cttgaaaaaa agaaaaatga acagatagaa aatttttgaca 420
 gagaattgga gtctataatt aaaaggaatc aaatagatat tctagaactg aaaaatatat 480
 ttgaaattaa cattggatgg gcttaacagc aggctgaaca ctgaattagt gaactaatga 540
 gaagacagaa ttagtgaact tgaaaaaaga tcagtagaaa atattcaaac tgaagcacag 600
 agaaaaaaaa aaaaaaaaaa ctcgta 626

<210> 402
 <211> 2186
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (174)
 <223> n equals a,t,g, or c

<400> 402
 cgcccggtgc actgtggacg atgagtcagg gttaggggcg ccaggacgcg ggcgtgcagg 60
 acgccagagc tgggtcagag ctcgagccag cggcgcccg agagattcgg agatgcaggc 120
 ggctcggatg gccgcgagct tggggcggca gctgctgagg ctccggggcg gaanctcgcg 180
 gctcacggcg ctcttggggc agccccggcc cggccctgcc cggcgggcct atgccggggg 240
 tgccgctcag ctggctcttg acaagtcaga tccccacccc tctgacgctc tgaccaggaa 300
 aaaaccggcc aaggcggaat ctaagtcctt tgctgtggga atgttcaaag gccagctcac 360
 cacagatcag gtgttcccat acccgctcctg gctcaacgaa gagcagacac agtttcttaa 420
 agagctggtg gagcctgtgt cccgtttctt cgaggaagtg aacgatcccc ccaagaatga 480
 cgctctggag atggtggagg agaccacttg gcagggcctc aaggagctgg gggccttttg 540
 tctgcaagtg cccagtgagc tgggtggtgt gggcctttgc aacaccagc acgcccgttt 600
 ggtggagatc gtgggcatgc atgaccttg cgtgggcatt accctggggg cccatcagag 660
 catcggtttc aaaggcatcc tgctcttttg cacaaaggcc cagaaagaaa aatacctccc 720
 caagctggca tctggggaga ctgtggccgc tttctgtcta accgagccct caagcgggtc 780
 agatgcagcc tccatccgaa cctctgctgt gggcctagca gacatcttca cggctcttgc 840
 caatggaagc aagctttgga tcagtaatgg gggcctagca gacatcttca cggctcttgc 900
 caagacacca gttacagatc cagccacagg agccgtgaag gagaagatca cagcttttgt 960
 ggtggagagg ggcttcgggg gcattaccca tgggccccct gagaagaaga tgggcatcaa 1020
 ggcttcaaac acagcagagg tggtctttga tggagtacgg gtgccatcgg agaacgtgct 1080
 gggtagggtt gggagtggct tcaaggttgc catgcacatc ctcaacaatg gaaggttttg 1140
 catggctgcg gccctggcag gtaccatgag aggcattcatt gctaaggcgg tagatcatgc 1200
 cactaatcgt acccagtttg gggagaaaaa tcacaacttt gggctgatcc aggagaagct 1260
 ggcacggatg gttatgctgc agtatgtaac tgagtccatg gcttacatgg tgagtgctaa 1320
 catggaccag ggagccacgg acttccagat agagggccgc atcagcaaaa tctttggctc 1380
 ggagggcagc tggaaggtga cagatgaatg catccaaatc atggggggta tgggcttcac 1440
 gaaggaacct ggagtagagc gtgtgtcccg agatcttcgc atcttccgga tctttgaggg 1500
 gacaaatgac attcttcggc tggttggtgc tctgcagggc tgtagggcgg gcagggctgg 1560
 gcagcggcct gagtctcagc ggacttgctc acccgaggtt gagtccgagt ggcgagctgg 1620
 cagtacgggc tctggagcag tttgccactg tggtggaggc caagctgata aaacacaaga 1680

aggggattgt	caatgaacag	tttctgctgc	agcggctggc	agacggggcc	atcgacctct	1740
atgccatggt	ggtgggttctc	tgcagggcct	caagatccct	gagtgagggc	cacccacgg	1800
cccagcatga	gaaaatgctc	tgtgacacct	ggtgtatcga	ggctgcagct	cggatccgag	1860
agggcatggc	cgccctgcag	tctgacccct	ggcagcaaga	gctctaccgc	aacttcaaaa	1920
gcatctccaa	ggccttggtg	gagcgggggtg	gtgtgggtcac	cagcaaccca	cttggttct	1980
gaatactccc	ggccagggcc	tgtcccagtt	atgtgccttc	cctcaagcca	aagccgaagc	2040
ccctttcctt	aaggccctgg	tttgtcccga	aggggcctag	tggtcccagc	actgtgcctg	2100
ctctcaagag	cacttactgc	ctcgcaaata	ataaaaaattt	ctagccagtc	aaaaaaaaaa	2160
aaaaaaaaaa	aaaaaaaaaa	aaaaaag				2186

<210> 403

<211> 721

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (673)

<223> n equals a,t,g, or c

<400> 403

gtcctcaccc	agtatactcc	tcttttttact	cagcttgata	ggaatctttc	cagtcctctc	60
tgcattttata	tgtatacatc	attcgtattc	gtgaccctaa	taatgatacc	cagtcagctc	120
acaccagcaa	gaaaaagtat	ttttcaagcc	ctctggaagc	attggaagct	ccaagtgagc	180
ataagtgaag	ataccctaag	agatacttcc	aggttctaga	tccaggtgtt	tcattttccc	240
cttgttttcc	cactacattg	tcattctctc	aaccttatct	ttagttttgt	ttttttcatg	300
gaagaccaga	aagccccctt	ccccaaagtg	ttaaaatctg	gggtgaaggc	aactgacctc	360
attgcatact	ttggcaattc	aaagttataa	aatgttagcc	gggcacgggtg	gttcacgcct	420
gtaatcccaa	cactttggga	ggccaaggcg	ggcggatcac	ttgaggtcag	gagtcgcgaca	480
ccagccgggc	caacatgggtg	aaacccccatc	tctactaaaa	atacgraaat	taatcaggkg	540
agatggcgca	cacctataat	cccagctamt	tgggaggctg	aggcatgaga	atcgcttgaa	600
cccaggaggc	agaggttgca	gtgagtgagc	agagatcgctg	ccactgccct	ccagcctggg	660
tgacagagca	agnctgtctc	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaactcga	720
g						721

<210> 404

<211> 1024

<212> DNA

<213> Homo sapiens

<400> 404

ctgcaggaat	tccggcacgag	cttatttttac	ctgtgagtta	actaagattt	agaaaaaat	60
tcaagggtcac	ataatatgtg	tgactctcat	aaagactgtc	aagccaaagc	atgcttttaa	120
cctccatgcc	ttaaatctga	aacaccgtta	gttgacatct	ctcactgaaa	ataatcacia	180
catcgacttc	ttagaaagat	aagatacatt	tgtctttcct	gaatatatga	tttgcttttg	240
ctgttttgtg	gagatgttcc	ttgttctttg	tatgtgtctt	ctcatgtgtg	tctctgtact	300
cacattgcta	gctgtgcggg	ctttgtctcc	cttcctctca	tgccagctag	tggcatgatg	360
gagagactgt	ggtctagact	gaggattatg	acagcatata	aaactgactc	aacacttaca	420
ggtaaataaaa	atgagcagtg	gtttccttta	tttatttctg	ttatccacta	catagattcc	480
atgtggattt	aagaaactca	aattcaagta	gaaatatcta	ttaatagcta	ttaaccaatc	540
atgcatctca	tgtcttagga	gattctatcc	tgtagataaa	atgaggaaat	cattttattga	600
ctgccttttt	gggaaataac	tctatgggtc	ctagaagaca	tcttcgttta	cttcaagtgc	660
catggctttg	agtttcattc	aggaagatgg	tccaaaatat	gagaatgtgt	ttattctttt	720
aagatatgta	aattgtttat	atcaatatca	acttatcctt	tttgggagag	aaatacataa	780
gtagtacttc	actttcatta	gttattttaac	attcaaaaatc	tctcaagtca	tttaaccagg	840
tgcaatgggt	catgcctata	atcccagcac	tttaggaggc	tgaggcagga	ggattgcttg	900
ggcccaggag	tacgagacca	tcctaggcac	acagtgaagc	ctcaatctct	acaaaawaaa	960
aaaaaaaaaa	ctcgctcgtg	ccgaaggggg	gtcccgtacc	caatcgccct	cacatgcatc	1020
gtat						1024

<210> 405

0950032-091201

<211> 1210
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1204)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1205)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1209)
 <223> n equals a,t,g, or c

<400> 405
 ggcacgagcg acaaagcctt tgaccgcatc accacgagga gtgagaagcc actgcggaca 60
 tcaagcgcac cttccacact gtcaccacca cagacgaccc tgtcatccgc aagctggcaa 120
 aaactcaggg gaatgtgttt gccactgatg ccactcctggc cacgctgatg agctgtaccc 180
 gctcagtgtg ttcttgggat attgtcgtcc agagagttgg gtccaaactc ttctttgaca 240
 agagagacaa ctctgacttt gacctcctga cagtgatgga gactgccaat gagccccctc 300
 aagatgaagg taattccttc aattcacccc gcaacctggc catggaggca acctacatca 360
 accacaattt ctcccagcag tgcttgagaa tggggaagga aagatacaac ttccccaacc 420
 caaacccgtt tgtggaggac gacatggata agaataaaat cgcctctgtt gcgtaccgtt 480
 accgcagtgg aagcttggag atgatattga ccttattgtc cgttgtgagc acgatggcgt 540
 catgactgga gccaacgggg aagtgtcctt catcaacatc aagacactca atgagtggga 600
 ttccaggcac tgtaatggcg ttgactggcg tcagaagctg gactctcagc gaggggctgt 660
 cattgccacg gagctgaaga acaacagcta caagtggcc cgggtggacct gctgtgcttt 720
 gctggctgga tctgagtacc tcaagcttgg ttatgtgtct cgggtaccacg tgaaagactc 780
 ctcacgccac gtcacacctg gcacccagca gttcaagcct aatgagtttg ccagccagat 840
 caacctgagc gtggagaatg cctggggcat tttacgctgc gtcattgaca tctgcatgaa 900
 gctggaggag ggcaaatacc tcactcctcaa ggaccccaac aagcaggtca tccgtgtcta 960
 cagcctccct gatggcacct tcagctctga tgaagatgag gaggaagagg aggaggaaga 1020
 agaggaagaa gaagaggaag aaacttaaac cagtgatgtg gagctggagt ttgtccttcc 1080
 accgagacta cgagggcctt tgatgcttag tggaatgtgt gtctaacttg ctctctgaca 1140
 ttttagcagat gaaataaaat atatatctgt ttagtctttc aaaaaaaaaa aaaaaaaaaa 1200
 aaannaaana 1210

<210> 406
 <211> 1445
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1017)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1441)
 <223> n equals a,t,g, or c

<400> 406
 acagttcgcg tgcgtttcct tcgcctactt ggccctacatg ccttctgccc gtgaagcgat 60
 gtttcccttc gaaaggccgt aggctacgcc gtcagaatcg gtttttcagt gagttttgac 120
 ccctccgacg ctccgtcgcc tgacagaatc gcggcggtct tcgtaccgcc catcctccgc 180

09500309160

T.02T.60" 23005660

ggacgccccg	tgccatggcg	actctgctgc	gccctgtcct	ccgtcgggctc	tgcggggctcc	240
cgggcctaca	gcggcctgcg	gcagaaatgc	ccctccgggc	taggagcgac	ggcgccggcc	300
cgctatactc	gcaccacctc	cccacctccc	cgctgcagaa	agcgctgttg	gccgcccggct	360
ccgcggcgat	ggcgctctat	aacccttacc	gccacgacat	ggtcgcagtt	ctaggggaga	420
ccacaggaca	ccgcaccctg	aaggctcctca	gggaccagat	gaggagggat	ccagaggggtg	480
cccagatcct	gcaggagcgt	ccccggattt	cgacatccac	cctcgacctg	ggcaagctcc	540
agagcctgcc	ggaaggctcc	ctcggtcgcg	agtatctccg	tttcttggat	gtgaacaggg	600
tctccccaga	caccgagca	cccacccgct	tcgtggatga	tgaggagcta	gcgtatgtra	660
ttcagcggta	ccgggaggtg	cacgacatgc	ttcacaccct	gctggggatg	cccaccaaca	720
tcctggggga	gatcggtggtg	aaatggtttg	aggctgtcca	gactggcctg	cccatgtgca	780
tcctgggtgc	attcttttga	ccgatccgac	ttggcgctca	gagcctgcaa	gtgctggtct	840
cggagttgat	cccatggggc	gttcagaacg	ggcgagagc	cccatgtgtc	ctcaacctgt	900
actatgagcg	gcgctgggag	cagtccttga	gggctctgcg	ggaggagctg	ggcattacag	960
caccacccat	gcacgtccag	ggcttggcct	gagctcctga	gccagcgggg	cctggcntac	1020
ctcccccatc	ccctgcttcc	cttggaggca	gagggctccc	ttgactacct	ttgttcctct	1080
tctttgaaca	ctgacccttg	gacaacattt	atcataattt	gtcataacca	ctgctgagtg	1140
gccttgagga	cgaaccccg	agggagcaag	cagtacagtg	gcattcccag	ggggaccagc	1200
agctacccaa	ggagaaccat	gcatgaacag	tatcagtcgt	ctgggctcat	gctgggatgt	1260
cgcagtgtc	ctgttgcaac	tcctcccagc	cagccagggt	tgctgggggc	caggctgggt	1320
gtcctcacag	gagtgagggc	tacacccaat	tccaaaagcc	tgagaagaga	gaagtggagg	1380
gggaggcgag	tgtgtgaata	aaggctccca	tcagggtcaa	aaaaaaaaaa	aaaaaaaaaa	1440
naaaa						1445

<210> 407

<211> 1633

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1599)

<223> n equals a,t,g, or c

<400> 407

aattcggcag	agcatagttt	ttcaaatttg	gacattttaa	aaagaaactt	ttactgtagt	60
catgaagtag	tatcaaagtt	taccacaagt	ttgtatttag	agaagaacaa	acaatatatg	120
ctaatatgaa	aaacagctct	acttagaaa	ctactgcttg	gggttttctta	ttaggcatag	180
ttctccagac	tgagttgggt	ttactcatct	acatgatatt	tccttgccct	atggaacaga	240
aattcaggcc	cactcgaatt	cagttatttt	agggctcttt	aaaatccagt	atttgtgatt	300
taaatgatgc	ggagggactt	tcattacctg	tgtctttgct	tatttctctc	tggccctcag	360
aacacccac	cctgaccttt	aggggaaatt	gacagaggca	gaggggtttca	cctgcctcaa	420
ttgtcaccag	ccctgttaca	ttcttctctc	caagccttag	cctcacaggg	accttctcat	480
tattgaacaa	wtgccttcaa	agcagtagaa	tagcccaatt	gttatggaga	ttaaagatac	540
cgattgcaaa	actcctgtaa	ataaaatctt	cactgacaaa	cccagtttct	tttcataggc	600
ttttcttctg	taatctcttt	ctggcagaac	atctcatggt	ttgatgttag	agattcagtt	660
accaaccaca	gtaaataaag	caaaataata	atagaaaaat	agtatagaac	tcaccctaaa	720
aacaaacatt	ggccaacat	gtttattttt	tgtctctctt	tgcactcctg	agaattgata	780
ggggaagaat	gtaccacctc	taattcaggt	gatttctgat	tagcaagcta	tggaaagtct	840
tcaggttgag	tttttagccag	ttcacgctcc	cctaaatggc	atggaataga	ctattttctg	900
ttttaagaaa	aaatagaaca	atggcactaa	atgcttgact	gaatgtttga	ctaaatgttg	960
actgaatcat	ggataggaaa	gattgggcag	aaaagacagc	cactgcctcc	agacacagga	1020
tgccacaatc	ctgggcacca	tcattattcc	atacaacctt	agggtcattt	ttagggttta	1080
gaactttctc	aatagggttt	caagattttg	aaaagtgtct	tccaattctg	atctccgtag	1140
atcctgttat	gggaattaac	cttttttgaa	ggggattcct	gttcttaaa	atgaaattcc	1200
ctactttctt	tcctggaggg	aatcagtatg	ggcagaggga	agaggagatg	gcgattctga	1260
cctgtgtgtc	tcattgtcac	taacacctat	gggtggcgat	gaaacttgag	ctttaaaaca	1320
caccaggggc	caggcacagt	ggctcatgct	ggtaatccca	gcactttggg	agaccgaggt	1380
gggtggatca	cctgaggtca	ggagtctcag	accagcctgc	caacatggca	aaaccccgct	1440
tctactaaaa	atacaaaaat	cagctgggtg	tggtggcggg	cacctgtaat	cccagctact	1500
tgggaggctg	aggcaggaga	atcgcttgaa	cctgggaggc	agaggttgca	gtgagccgag	1560
atcaggccat	tgtactctag	cctgggtgac	aagagtgana	ctccatctga	aaaaaaaaaa	1620

aaaaaaaaactc gag

1633

<210> 408
<211> 1406
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1336)
<223> n equals a,t,g, or c

<400> 408
gaagaaatgt agattgaaag tagagggttga ctccagccag gacccaaaata atatatgttat 60
tttttagggg aactataaaa agaacaacag tttttcctag catttgccat aagacctagg 120
attttaatga aagttgaaat tcaaatgcct gagactgccc catactgtga gggctcttatt 180
agccttgtyt ttggaaggag acttactgtc tctcttccca aatttaaagt gcttggtttc 240
cctacctata ttatggcagg cagagtggga tatttaaggt attgtctatt ccanatctct 300
gcccttctca ttttctaggg rttgccctgc attccattta cactgttaca cttagacgtg 360
tgaatttgac ctgtctcccg ggcatttgga aacgggggat gattctactc ctagtctgtc 420
tctgaagcag gggagggtgta aatcctgggtg acgtatgaac tagagggggtt ggcctgcagt 480
gaggggaagca tgatggaggtt ggggtgcgtgg agaaggggaaa aaaatcaaga gatatgctca 540
agttcctctg tgtagccctc cagttcccag agacccccgt gtacttacaa caaatgaaaa 600
gggggtgtgt tcatattttc cttaaatttt ctcaaggggt tttgggaacg ttcaacccaaa 660
ggtaccctaa tatagtggta aaaaagaagc ctgagatttc tagagctgct gtgaagamct 720
attagaaggs ggartataag attctaagta cgggactaag ttactgaaaa tgtggcccca 780
tagagaaagc tgctctaccc ttcccttagt gcagacattg aggttgggggt tcattctgtg 840
acgtcatagc cttgctttga actagaagga gaagcatttg ttagatacca ggttggggtg 900
ggataaaaca aacagaatgt tgcttctcag tacagctgcc tgtttgcagg gctaattctc 960
taagggtctc aggatactca gaggcatagc agacttgggc ccagagcaca gggataggca 1020
aaacttttct gttaagggtc acttagtaaa tattttaagc tttgcaggtc ctatggtctc 1080
tgacattact actcaactgt cccatggtaa gataaaagtc acagacaata tgtaaaccaaa 1140
atggacatag ctgtgttcca gtgcaacttt tttttttgag acagtcttgc tctgcctcca 1200
ggctagagag cagtggcgtg atcttggtc actgcaactt ccgcctccca agttaagcga 1260
ttctcctgta gtcccagcta ctcaggaggc tgaggcagga aaacagcttg aaccaggggg 1320
tcagaggttg cagtgnacta cgggtgcactc cagcctggga acagagtggg actccatctc 1380
aagaaaaaaa aaaaaaaaaa ctcgta 1406

<210> 409
<211> 1282
<212> DNA
<213> Homo sapiens

<400> 409
ggcacgagat ttttaatttt tgtaaatatc aacagcaaaa gcctagtgca ttgggagatg 60
tgcaacctcc ctgaaaatct tttctgtttc tggagtactt caggggtggc ctctggcccc 120
agagcctttg ccacagtgtc cccaccagcc cccacctcat ccgtctgttt gcagagcctc 180
atctacaggt cccacagctg ccttctttac tcaactctgcg cttggccggt ttgttatttg 240
gcttagtcta cattgggcgg aagtctgtgt gcacagagtg ggtgttccct cgagccccct 300
ccactcagag ggccacaccc agcagtgcca gtgaagggtg cacagcctct ctacagtttc 360
tctgactgt gatctcactg gggtagaatt cccctgagag aattccctca ctacaggtc 420
cctttgccag agtcagttca atcaggtctg atgtgagcaa tttacacact tgtctcagaa 480
agtccctcag ggtttgtaga ggactgcagg ggggcatccg ctgcagactc agcctttctc 540
tgcagccatc ctgcagtggt ggtgagcggg cacaggctga gaactgctct tgggtgggtg 600
aagcaggtgt cacggtgcaa gtctccccct gcacccctcc cccagcttga gccgtgtcac 660
ccccctctcc ctccagcatg ggcctgtgtc tcaggctctc tggaagggtg ccctgccccg 720

gaccctcttg	caggtgtcct	ggtttgactt	ggaactagat	ggccatcttt	ccaggctttg	780
gtggcccaag	agcagtctgg	gtggatggaa	gtggctgtcc	cctcctctcc	agccccctgcc	840
caccacttgg	tggaggtgct	aactagcagg	gacgtggcat	aggatgggag	ctgggcgtga	900
ggtgcttggg	gtccattctt	tgtccctcag	cttctcagag	tccggccagc	ccttgtgttc	960
ccgtgcccc	cactttcctc	ctccccactg	cagttagtca	atagtcagg	gtggggcctg	1020
gcctccctgc	cctgattggg	gactcaggag	gtgaggcctg	gggggcttcc	tgccccctcc	1080
ttgcccacct	gcctgcccc	gggcagcacg	ggagggagag	cagggtgagc	acgcttgttg	1140
gtttcagatg	cactttctgc	ttgcattgcc	gtatctgtgc	gttccttcat	cctggctcctg	1200
gctttatgga	acaccatggt	tttagcatgt	ttttaaataa	aaacggataa	agtgtcaaaa	1260
gcaaaaaaaaa	aaaaaaaaaa	aa				1282

<210> 410

<211> 1053

<212> DNA

<213> Homo sapiens

<400> 410

ggcagagcc	cggatggaag	ctccggccgc	ggagtgatgg	tggcctcagc	gaagatgggc	60
cgggcaggga	ccatggcggg	ggcagcagag	cttcgagagc	tgtgccagg	agtgaacaac	120
cagccctacc	tctgtgagag	tggctactgc	tgcggggaga	ctggctgctg	cacctactac	180
tatgagctct	ggtgggttctg	gctgctctgg	actgtcctca	tcctctttag	ctgctgttgc	240
gccttccgcc	accgacgagc	taaactcagg	ctgcaacaac	agcagcggca	gcgtcgaaat	300
caacttggtg	gcctatcatg	gggcatgcca	tggggctggg	cctttcccta	ccggttccact	360
gcttgacctt	cgcttctctca	gcaccttcaa	gccccagcc	tacgaggatg	tggttccaccg	420
cccaggcaca	ccaccccccc	cttatactgt	ggccccaggc	cgcccttga	ctgcttccag	480
tgaacaaacc	tgctgttcc	cctcatccag	ctgccttgcc	cactttgaag	gaacaaatgt	540
ggaaggtggt	tcctcccacc	agagtgtccc	cccccatcag	gagggtgagc	ccggggcagg	600
ggtgacccct	gcctccacac	ccccctcctg	ccgctatcgc	cgtttaactg	gcgactccgg	660
tattgagctc	tgcccttgct	ctgcctccgg	tgagggtgag	ccagtcaagg	agggtgagggt	720
tagtgccacc	ctgccagatc	tggaggacta	ctccccgtgt	gcactacccc	cagagtctgt	780
accgcagatc	tttcccatgg	ggctgtcttc	cagtgaagg	gacatcccat	aagttagttt	840
gagaggggtg	atgggttact	tgccaccag	aaacagccct	agtcccaact	ccttgcggtc	900
ctttggcccc	tccttgcccta	cctagaatct	gcctgaaagg	gctggagagg	ggcagtattg	960
ggggactgtg	ctagctttac	ccccgcagga	catacacagg	agcctttgat	ctcattaaag	1020
agatgtgaac	cagctaaaaa	aaaaaaaaaa	aaa			1053

<210> 411

<211> 1238

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> n equals a,t,g, or c

<400> 411

gctgcagaag	acgacagang	ggtacggctg	cgagaagacg	acagaagggg	ggattggccg	60
gaagcaggcg	ccgcttcgag	gcccgcggga	aacgcgcgcc	gagaccgct	cctgcagtat	120
tagttcttgc	agctgggtgg	ggcggctgag	gcggcatgga	tctcagcgag	ctggagagag	180
acaatacagg	ccgctgtcgc	ctgagttcgc	ctgtgcccgc	ggtgtgccgc	aaggagcctt	240
gcgtccctgg	cgctgatgag	gcgggcagg	gccccgtgct	ggggcccatg	gtctacgcca	300
tctgttattg	tcctctgect	cgctggcag	atctggaggc	gctgaaagtg	gcagactcaa	360
agaccctatt	ggagagcgag	cgggaaaggc	tgtttgcgaa	aatggaggac	acggactttg	420
tcggctgggg	gctggatgtg	ctgtctccaa	acctcatctc	taccagcatg	cttgggcggg	480
tcaaatacaa	cctgaactcc	ctgtcacatg	atacagccac	tgggcttata	cagtatgcat	540
tggaccagg	cgtgaacgtc	accaggtat	tcgtgggacac	cgtaggatgc	cagagacata	600
ccaggcgccg	ctgcagcaaa	gttttcccg	gattgaggtg	acggtcaagg	ccaaagcaga	660
tgccctctac	ccggtgggta	gtgctgccag	catctgtgcc	aagggtggccc	gggaccaggc	720
cgtgaagaaa	tggcagttcg	tggagaaact	gcaggacttg	gatactgatt	atggctcagg	780
ctaccccaat	gatcccaaga	caaaagcgtg	gttgaaggag	cacgtggagc	ctgtgttcgg	840

cttccccag	tttgtccggt	tcagctggcg	cacggcccag	accatcctgg	agaaagagggc	900
ggaagatgtt	atatgggagg	actcagcatc	cgagaatcag	gagggactca	ggaagatcac	960
atcctacttc	ctcaatgaag	ggtcccaagc	ccgtccccgt	tcttcccacc	gatatttcct	1020
ggaacgcggc	ctggagtcag	caaccagcct	ctagcagctg	cctctacgcg	ctctacctgc	1080
ttccccaacc	cagacattaa	aattgtttta	ggagaaccac	acgtagggga	tgtacttttg	1140
ggacagaagc	aagggtgggag	tgtstctgca	gccgggtcca	gctacttcct	tttggaacct	1200
taaatagaat	gggtgttggt	tgattaattt	taaaaaaa			1238

<210> 412

<211> 1954

<212> DNA

<213> Homo sapiens

<400> 412

ggcacgagcg	gcacgagctt	gagttagaag	aacctcagct	ctgtagtgat	cttatttttac	60
tgttttccca	ggatagaatg	cccttggtac	cacatactgt	atgcagagta	tttatgattg	120
cttgagtaca	gttccttgga	aaggacacaa	ggggtttcat	aaagcggtag	taaaaatctg	180
ctttttctccc	tagcattttac	caacaacctt	gcgatccgat	ggcttgaaat	aatggtcaga	240
gtgcatgtta	cccaacttct	cctggctgct	cctactctgt	cacactgcac	acagatcatg	300
cccgccacca	ccctacactc	cccagacctca	cccaccagtc	agacagttta	agtcctgctg	360
acgcaccagg	cgtgtgttg	ctcgtggttg	tacttttcat	gagtagcagg	gaagatacac	420
tccaggaagg	ygggatacaa	attattgaac	tgtgtgactt	aaaagctcca	gtgagtttcg	480
tcggaagtat	aggagtttga	aagtgtctcc	cagtcaaacc	cagaactaca	tagggtcagc	540
cgtgggttag	ctaattttctg	cttacacatg	tgtggagggg	gtcattttct	gactacgcct	600
aggcctgagt	ggacagccga	ttaaagatg	taaattcgtg	gattgtatca	aggagagcgg	660
gttccatctt	tgtggtcagg	agggggccca	ctcttttgtt	ccgcaaaggg	tttatctgga	720
tgttccttgc	tggaagttgc	ttttccagtt	tggatcaaac	cacttaagtg	gagctccagc	780
ctcagtcctt	gcaataaaaa	aaaaaaaagtc	ctggaaaagcc	agaattttgc	taatattctta	840
catagaatct	caatgatggg	aattgggagt	agaaggcaga	gagtgggtgct	tggctgatgg	900
aagttaaaaa	ttgggttaat	aataaactac	atttatatat	cagttaacag	cttgctaagt	960
gccacatat	tatttgagct	tcatacttgc	ttgctgagaa	agaatggcta	ttattatcat	1020
tatcatcatt	accactttcc	attttataga	taacaaaatt	gaggctctga	gaatttaaag	1080
agattttccc	caaatcatta	aacggtgact	tctgaatctg	gatatatgac	aagacctctg	1140
tccccagtc	ccttgctttc	acctctataa	tatatagtag	ctaagctcag	ctttctgaga	1200
acttccctgk	cttatgtcat	atttgacatt	ataggagaat	tgaagatgtt	ttgtaagtac	1260
atactttgtt	tactacctca	gtagccagta	taacaaaatg	cactgaagtt	ttatgctttg	1320
cttgctaaaa	ccagcaccat	ttgtgaaaca	ggtcttggct	ccgagttacc	cttaaatgta	1380
actcctttat	tataaaatca	tttgcaarga	gctgcagaga	wcaaggaata	sactcttccc	1440
acttcccata	tgccaggtag	tactatgaca	ggacttcata	gtaccacttc	ttcaacaaaa	1500
taagtgtctg	cagtgaataa	tttgttaaaa	tgcacatttc	tcagtgaata	tatttctttt	1560
aaaactgaaa	aaaatagtac	ctaacggaaa	ttttatcatt	gctttaaaaa	gtattttaat	1620
gaagatatta	aaaaatacct	ttgatggatt	cttcaatatt	gtcgaactgc	tcaaaatgat	1680
tatactgtta	tatgaagtct	aaaatctttc	atgcaactta	caagaatatt	tttgttgtat	1740
gcaacacagt	tggaataatc	tagtgggacc	atgtccatgc	aattactgat	tatgtaatgc	1800
tgtaaatatt	tgataagcat	gttccaagtt	ttcctgttct	aaaaacaaaa	acattaaaaa	1860
cacccactgt	tgaagacaaa	agatcattac	tttatttagga	gatattatta	gatatgttta	1920
gaactagtta	aaaaaaaaaa	aaaaaaaaaact	cgag			1954

<210> 413

<211> 874

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (79)

<223> n equals a,t,g, or c

<400> 413

gccttctgaa	aaagggtgctt	gcttctctct	caccttctgc	cacgattgta	agtttctctga	60
ggcctcccca	gccatgcana	actcacgcac	tcttggtctt	aaagtttata	cttgcatctg	120

ccatacctga	taagccacgg	catatccaga	tgaaactagc	cagactggaa	tttgagtctt	180
tggaggcact	caagcagcag	caaatgaagc	tcgtgaccga	gaacctgaag	gaggaaccaa	240
tggaaagcgg	gaaggagaag	gcaacctgag	tgcccagcgt	gccagctgc	cctgttgga	300
gaggcctgtg	tctgtgccac	acctgccacg	gtggcagggg	ggtaccgggg	cagcatcgtg	360
gctcctgaac	ccagacccaa	tgcttagcca	aacgaatggc	tcccatgtgg	caagcaccct	420
tctcagtttc	gcagtggctt	ggctcgggat	ccttggcagt	ccccccagcc	ccaccctgtc	480
tgctccttcc	cagttccttc	ccgggccccca	cacgtctgtc	cagctgccaa	ctttgtctga	540
gagccactgc	cgcccttgag	cctctcacca	tgagttagcc	accagctctc	cacgttcccc	600
tcatagcagt	gtcactccca	acccccaccat	ggcccaggga	cccggtggaca	ggttggggat	660
ggggtgtgtg	cccactgtgc	tcatcacagg	agcctcagtt	gagagtgage	ggggtacagt	720
aaggcagtgc	ttcccacact	ggacctcttt	cctgggtctc	ttttgcaata	cattaacaga	780
ccctttatca	acataaaca	tagtaactga	gctattaaag	gcaacctctc	tgacwaaaaa	840
aaaaaaaaaa	aaaaaaaaaa	aaaagggcgg	ccgc			874

<210> 414

<211> 2206

<212> DNA

<213> Homo sapiens

<400> 414

ggcacgagct	ggactccctg	agtttgttaa	aatagtagaa	gttgggccta	gggatggatt	60
gcagaatgaa	aaggttatag	ttcctacaga	tataaaaatt	gaatttatca	atcgactttc	120
ccaaactggc	ttgtctgtaa	tagaagtgac	tagctttgtg	tcttcagat	gggtaccaca	180
gatggctgat	cacactgaag	taatgaaagg	cattcatcaa	tatccaggag	ttcgctatcc	240
tgctcctact	cctaactctt	agggttttca	ccatgctgtt	gctgctggag	ctactgagat	300
atcagttttt	ggagctgcat	ctgaatcctt	tagcaagaag	aatattaact	gttcattga	360
agaaagtatg	ggaaaatttg	aggaggttgt	taagtctgca	agacacatga	atattccagc	420
acgaggggat	gtgtcttgtg	ctctgggctg	tccatatgaa	ggaagtatta	caccgcaaaa	480
agtgcacaga	gtgtctaaga	aattgtacgg	catgggttgt	tatgagatct	ctctaggaga	540
cacaatttga	gtgggaactc	caggaagtat	gaaaagaatg	ttggaaagtg	tgatgaaaaa	600
aatcccacca	ggtgtctctg	ctgttcactg	tcatgcacaca	tacggacaag	ccttagcaaa	660
tatccttacg	gcccttcaga	tgggaattaa	tgtggtggac	tccgcagtat	ccggattagg	720
tggctgccct	tatgcaaaag	gtgcttctgg	gaatgtagcc	actgaggatt	tgatatatat	780
gcttaatggc	ctggggctca	atacaggtgt	gaatctatac	aaagtgatgg	aagctgggtga	840
ctttattttg	aaagctgtga	ataaaaccac	aaactctaaa	gtagcacaag	cctccttcaa	900
tgcttgactt	gaatggattt	atgacgtacc	gttgagaaga	tcaatttcag	ctacaatact	960
catctgaaaa	tcattaatgc	caacttgctc	tgatatgtga	agtaatggac	aagaatggga	1020
aaaaagagat	cctttttcaa	aagattataa	ctggatagat	taagtcaaca	aaatgcaata	1080
tcagtcatca	ggtaaattgc	aagctgagga	taaataataa	aacttgtcat	aattttgaac	1140
ttggaaaaaa	gtttcttttg	ctctcataga	aataactttt	taatttagta	gatgggaaaa	1200
ttgacttcgt	atttcccca	gtatcaaata	ctgtgttaat	acttaatcaa	gcaggcttaa	1260
cactgtgtac	atattgtcag	tagtttatga	gctcctgcat	agtatgcaga	gtgtgtggcc	1320
tcaatattat	acattatgcc	tctggatctc	aactactcat	ttgccaagtc	agttatgtta	1380
tggaccaaaa	gccaaatctc	catctgaccc	tacataattt	tagcaataga	acttttatat	1440
ttcaagtatg	gctaacatct	gttaactatt	tcagtgactt	tatctggttc	caagaggctg	1500
tggccaatgg	caagatgcc	tatcctggaa	acatattacg	acctcccatg	tttgttacat	1560
gcatccagtt	taccacactt	tacctgtcat	cagttatagt	aaaaaccagc	atgggtgttac	1620
tcaactattg	agaaattgta	agctattttt	tttgtcctga	tgtctaaatt	gcagtgataa	1680
gaatagggtg	atacatgtat	cataatctac	ctttataatt	ttcagatcac	tttcaaattg	1740
cccaaggaaa	tattgtgatc	ctaagaatat	taagataatt	ttaggttaat	gaaataccca	1800
ttttcctttt	attcatgggtg	ctttgcttac	ccacattatt	ttttgggtga	tttttttagtg	1860
gttatttttag	aagttgaagt	ggctgaaatt	ttgtctattg	tcttagaatt	gattgccaga	1920
aattgcaaga	tgtaatatat	caaagtcagg	gatgaggagc	aggaggacta	ttcaagataa	1980
acttctgtaa	cctatgcata	ttttatgggg	gcagtattat	tacaaatgga	tctgaaatgt	2040
cagttctagt	atthagagag	acttctctaa	taataccggg	tgatattatc	tttgagtaaa	2100
tttgaatata	aattgaaaca	taaaaatgag	tattgtgaac	tttctcgga	atattcatta	2160
aaaccattga	aataaaaaata	aattcaagaa	aaaaaaaaaa	aaaaaa		2206

<210> 415

<211> 956

<212> DNA

<400> 417

ggaattcccc	gggggaatgg	gccactgatt	catttcgtgg	ttaactggaa	tactgctttt	60
taattgatac	ccagctgtat	ctaaatcatt	acaatactgg	acagatagtg	tagtgcagag	120
tatttgaaat	gcagtgcttt	gtttggcaaa	gatttattta	atggtttcat	tttctctgca	180
agaagaaaaa	aagcagatca	tcgaagctct	tattatttgc	actgtggcag	attcacttga	240
gttcagaagc	ctagggaaaa	ggtgggactt	ttgaaactag	ggcagtaggt	aaatgtggac	300
acaccttcgt	ttgtatttga	ttagggatct	gacagcgtgc	atatgtgtac	aggtttgcac	360
gtgtgcatac	acacatatac	aaatcataga	aaaccatagg	tgttctgtga	gagagaaaaat	420
tttgctactt	aaatacagcg	tgaattctca	tcctgatagt	tgcagaaaaat	atctctttta	480
aaatggagat	taatgtctaa	ttccatataa	agaagattat	aggaaagggtg	atctaaactg	540
taagtagctt	tgttcactaa	aacgctagat	ttatttgaaa	cagtgtttta	tttcttttgg	600
aaggcagaca	actagtttaa	tagtgtacat	atgaaacgct	aatttggctt	gttaattgga	660
tgcaattaaa	ttgaggttat	tttatactgc	tttaattgtta	gaaaattaca	tgcgttgcca	720
tgctgtgtga	atgtgaagca	aaagcgaagg	gtatagcagg	agtgggggtg	ggagggacgc	780
aagatctagt	cctgtctttg	caattaactt	tctgtgaaaa	cttgggaaaca	agtcactcgaa	840
gctcttttga	cctcatttgg	aaatggaaga	gattggaaca	gatggctcct	aaagcttctt	900
ccagctcata	ttctatcagt	ttataaatct	tactttgtag	ttgtagagaa	tgcaatgtca	960
ttatattctg	taattatggt	attacaagga	tgaactaaac	acttaaaaaa	atcagcacag	1020
tgccaattta	gcaaatccgt	tagaaggaag	gcaatttagg	cttaaagagc	actcacctgt	1080
gccaggctcc	atcccaggct	ctctctccac	attacgtcac	ttagccctca	caaccaacct	1140
gagaagattt	agttttttat	cttgatgtgt	atacttaaag	aaacttccat	tcggaaagggt	1200
tttgtgggga	tgctttgtct	gtcattgggtg	aagcaggatt	cgaactcagg	gttcttttggc	1260
tccgaaaatg	ctttgtcttt	ttaccatttt	cacgcagtat	aagcaattgt	ttacacatca	1320
aaattatttc	aaatatattaa	aaaaggccaa	ccatattttat	cacttagcac	aatgtttccc	1380
cttagtagta	tatggataaa	caggtagccc	acgggattaa	gaacctcgat	ttgaagtcag	1440
acagaatagg	gcaaatccca	gctccaccac	cacctggggg	aatttgggta	tgttacttaa	1500
cctccctgag	gttacaaaat	gaggataata	cccattcaag	agtcattggg	aaatttttat	1560
gagaatggtt	gtacccatct	caatgagcac	atagtaaacg	tttaatacct	ggtagctatg	1620
ggttattatt	aacaaggtag	tagactataa	gaaaaacata	ggacaattca	aattgtttgtg	1680
acagtataat	attaaatatt	ttcaaattgt	ctttaaact	cttgactgaa	atggtttaag	1740
aaacaatggt	agaatgacat	ggtttcacat	ttaacagtta	acaaatggaa	atatcaatta	1800
aaatctgggg	tgttttctcac	tgagctcagc	cagtgtctatg	ccaatgaagt	gaactaaatt	1860
ctctgggttct	ttgtggaaaa	tcattctgaa	gtttttgtct	taaaaatagc	ttttggggcc	1920
tgaattaccc	cttaccaccac	tcgaacttct	gtgcaagagc	cagaggacca	gtgattactc	1980
gtggggccct	tgggcctact	taagagactc	aacttgggtg	ttcacaggac	tgttgacttt	2040
aattctaaaa	aaatttatta	attcaacaga	gatttattaa	gcacctgctc	tgggaaaggg	2100
ctgttctaga	cactggagat	ccatcaatag	acaaaaatag	taaaaaaaaaa	aaaaaaaaaac	2160
tcgagggggg	gccc					2174

<210> 418

<211> 1764

<212> DNA

<213> Homo sapiens

<400> 418

cccgggtttt	tctgttgctc	tccgagactg	gggggggatt	gtttcttctt	ttccttgtct	60
ttgaacttcc	ttggaggaga	gcttgggaga	cgtcccgggg	ccaggctacg	gacttgcgga	120
cgagccccc	agtcctggga	gccggccgcc	ctcggctctg	tgtaagcaca	catgcacgat	180
taaagaggag	acgcggggac	cccctgcccg	atcgcgcgcg	gcctccgcca	ccgtcctgc	240
cgcaaggggc	ctggactgca	ggcctgacct	gctccctgct	ccgtgtctgt	cctaggacgt	300
cccctcccgc	tcccgatagg	tggcgtggac	atggttattt	atctctgctc	cttcttgcct	360
ggaggagggg	agtgccagcc	ctgggggtct	gggattccag	ccctcctgga	gccttttgtt	420
ccccatgtgg	tctcagtgac	ccgtccccc	gacagtgggc	tcggggagct	gcacaccca	480
gccttcccc	tctccgactg	cagggctctg	tgctcatcatt	gacagccttt	gcttcgtggg	540
ggcctggcag	ggcccctgcc	tccccagacc	ccgaccact	gcaaattccc	gttccccctgc	600
actcctcttc	tcccagccca	tcccctccgg	ccctgtgcct	ctgcggcccc	agcccagctc	660
ccagggccgt	cacctgcttg	gccctggccc	agctccctgc	cctgagtcct	gagccagtcg	720
ctgggtgttt	ctgggctcgg	tactgggccc	ccaggccatc	caggctttgc	cacggccagt	780
tggctcctcc	tggggaactg	ggtgcgggtg	gagtactggg	aggcaggagg	tggccccggg	840
aggccttgtg	gtcctcctcc	tcgtcctcgc	ccctgggcct	cagcttcctc	atcaatagaa	900

aggatgtgtt	cggggtggg	gcgtcaggtg	agaacgtttg	ctgggaagga	gaggacttgg	960
ggcatggcct	ctggggccac	ccttcctgga	actcagagag	gaagggtccg	gccctcggga	1020
agccttggac	agaaccctcc	accccgagga	ccaggcgctg	tgtgtgtgtg	ggagagaagg	1080
aggcccggtg	tgagctcagg	gagaccccg	tgtgtccgtt	ctttagcaat	ataacctacc	1140
cagtgcgtgc	cgagcaggct	tggtggggaa	gggacttgag	ctgggcaagt	cctggcctgg	1200
caccgcgagc	cgtctccctt	ccgtggccca	gggaggtgtt	tgctgtccga	aggacctggg	1260
ccggcccatg	ggagcctggg	gttctgtcca	gataggacca	gggggtctca	ctttggccac	1320
cagttcttcg	gccagcacct	ctgccctcca	gaacctgcag	cctggagggg	tgaggggaca	1380
accacccctc	tttcctccag	gttggcagg	gacctcttcc	tcccgtctgc	ctgcgggttg	1440
ccgcctcct	ccagagactt	gcccaagggc	ccatcaccac	tggcctctgg	gcacttgtgc	1500
tgagactctg	ggaccagggc	agctgccacc	ttgtcaccat	gagagaattt	ggggagtgct	1560
tgcattgctg	ccagcaggct	cctgtctggg	tgccacgggg	ccagcatttt	ggagggagct	1620
tccttcttcc	cttcttgagc	aggtcgtcat	gatggatgca	ctgactgacc	gtctggggct	1680
caggctggtg	tgggatgcag	ccggccgatg	agaaaataaa	gccatattga	atgatcaaaa	1740
aaaaaaaaaa	aaaaaaaaaa	aaaa				1764

<210> 419
 <211> 682
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (665)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (673)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (677)
 <223> n equals a,t,g, or c

<400> 419						
gagtcaatat	tttttggctt	tgtagataaa	gacttaaatt	tttgtgcaac	atagtgggtgt	60
taaagcacac	atccattgga	ctatgcaaatt	caattttctac	tagcagcact	gagcaactgg	120
gcacgtgcta	gtacgcaccc	cctcctactc	taactgtgct	agctcttggg	ttgagggaatg	180
gaatgggtag	ccttctgctt	actggagatg	cacagagaaa	catggctgaa	aacagcttta	240
aaaagaacat	gtctttgggt	tcatgtgtgg	tgctgctgcc	cgggtgtaaa	ctatccccac	300
ccagggccag	ccattatcac	cagacctctt	ctgggcctgg	ctgtgaagcc	ctgttttttg	360
tattcagaat	ggatctttta	ggctcagatg	ggctcaaatt	gaaaccttgt	gttttataaa	420
atggatgttt	agtaaaggaa	ctgggttctca	gttatgttta	cagcacttgg	aattgtgtgt	480
tcttgtacat	tttgtatttt	aaaacctttt	atgggagtg	agtgtctcct	acacaaatac	540
aaaggaaga	agagccagca	gttgaggctc	ctcagtttta	gtgctgaaat	aataaacagt	600
gacaggtcaa	cagtaaaaaa	aaaaaaaaaa	aaamctcgag	ggggggggcc	cgggtacccc	660
aaatncgcc	tanaagnag	gc				682

<210> 420
 <211> 1743
 <212> DNA
 <213> Homo sapiens

<400> 420						
ggagaagaga	gaggcaagg	caggagtga	ggagagagct	gaagcctggg	gctccgagat	60
ggtcagagga	tgggagacgg	ggcagtga	caaggcttct	tgtatcttca	gcagcagcag	120
acgtttggaa	agaaatggcg	ccgcttcggc	gcctcactgt	atggaggggtc	ggactgcgcc	180
ttggcccgcc	tggagctgca	ggagggcccg	gagaagcctc	gtcgggtgtga	ggctgcccgg	240
aaggatcatc	gcctcagtga	ctgcctgcgg	gtggccgagg	ccggcggaga	ggccagcagc	300

ccccgggaca	ccagtgcctt	cttccctggag	accaaggagc	gcctgtacct	cctggcggcc	360
cctgcagcgg	agcgcggcga	ctgggtgacg	gccatctgcc	tcctggcctt	ccccgggcag	420
aggaaggagc	tctcggggcc	agagggaaa	cagagccggc	ccttcatggg	gaaatcta	480
tgtacagctt	gcgcagtcac	agtcggcccc	cacaaggaa	ttgctgtgac	catgagacct	540
acagaagcca	gtgaaaggtg	ccacctgagg	gggtccctata	ccctccgggc	tggggaaagt	600
gccctggagc	tgtgggggtg	gcccagcca	gggacccagc	tgtacgactg	gccctacagg	660
tttctgcggc	gctttggggc	ggacaaggcc	gtcgtgcgt	ctctggagag	ggcaactttg	720
agttcgaaac	ccggcaaggc	aatgagatct	tcttggccct	ggaagaggcc	atctctgccc	780
agaagaatgc	tgcacccgct	acaccccaac	cgcagccagc	cacaatcccc	gcctcgctgc	840
cccggcctga	tagcccttac	tctcggccgc	atgactcact	gccgccgcct	tcacccacca	900
caccggtgcc	tgtctccacg	cctcggggcc	aggaggggga	gtatgccctg	cccttcgatg	960
cgggtggccc	ttccttgggg	aagaacttca	ggggcatctt	ggcagtcctt	cctcagctcc	1020
tggccgaccc	ttctgtacga	cagcattgag	gagaccctgc	cccctcgacc	tgaccacata	1080
tacgatgagc	ccgagggagt	ggctgccttg	tccctctatg	acagcccgca	ggagccccgg	1140
ggtgagggcat	ggaggaggca	ggcgacagct	gacagggacc	ctgctggcct	ccagcatgtc	1200
cagccagctg	ggcaggattt	ctctgcttct	ggctggcagc	caggaactga	gtatgacaat	1260
gttggtactaa	agaaaggccc	aaagtgcag	aggcagcaga	gggatgggtc	accgcccctt	1320
ggcttctgct	ggtgactcct	cctggccact	gcatacagaag	aacctcctct	gccccttctg	1380
gagcccagag	cctggcctgt	cttcgttggg	gctgataaat	tgcctctccc	agggcctgct	1440
gggtgagtca	ccatcccaaa	gcaggaagg	tgccctggag	agaaccaccc	tcctcctact	1500
ctttttccac	ttcctcctct	ttctttcccc	agctgaggag	gaacctgggg	catttagggc	1560
agaggacaaa	aggatgtcag	caatttcttg	ggctgcttgg	ctatgcaagc	ctcctgcctg	1620
ctgatggcca	cttcaggggac	agcctggggc	caggcaccca	gggggatggc	ggcagcttcc	1680
tgcacctttc	agatttcttg	gtggcaatta	aagcattttc	agaacaaaaa	aaaaaaaaaa	1740
aaa						1743

<210> 421

<211> 1623

<212> DNA

<213> Homo sapiens

<400> 421

ggcacgagct	ttattatgga	tgagtagggc	cttgagtttc	tggtcagcct	agcggggaca	60
gtaacaggat	cattgctccc	ctaggtgtgt	gaccatgagc	tccagtgtca	atgtgaggaa	120
ggatggatcc	ctcccgaact	cgatgactcc	tcagtggtct	tccgtagtaa	cattacacat	180
ctaacctgag	aaaattgtct	tcctcttcca	agcctttatt	ttgtattata	tgagatttca	240
ctgcttcttt	tctctgttct	tgaaatttct	gttctgttga	tgtgaatcca	caatatttat	300
ccccaaaatc	tccttaatac	cttttaatta	tattttccgt	gtcttcattt	tcactgcaca	360
tgcaaaaaaa	ttcctcaaac	cttttatatt	gtaactctat	tttaatttca	caaattttct	420
tacttttagga	ctcttccatt	ttcatagcag	cctcaagtta	atggaaaaat	gtaatatcct	480
caaaactctc	taagaatatg	acctattatt	ttgtatgttc	agttctattc	tttgaattat	540
ctgtttcttt	tgagttgggt	tgttctgttg	tcaccacgtc	acttgtattc	tgttgtacta	600
gttttcttca	ggatatgtga	tccttagttc	aatgtggaat	tggtagagct	ggattagtcc	660
acacgggatg	tctctgcatt	tgtgtgtgct	gttgtagcta	ctgatatttc	tcttgatggg	720
ggaatctggc	tgggagctct	atgggcagg	aggcaggctc	gcctataggt	cttcagggtg	780
ggaaggagcc	agagtgggga	cccacctcca	gttggtacga	ggaacatttt	accctgagga	840
gggagctcat	caccacattt	tctcctgaga	gagctgcttt	ttctcatcat	catctcattg	900
acgctcccct	ctctgtctga	tatagtgtag	gtatctagag	gaagcctctg	tcctcctggt	960
catgttccctg	catcctctgt	ttgcagaaac	ggagaaattc	ttaggatttt	gatctcaggt	1020
gatgagccaa	tcttgttcta	tatacacagg	agatgaagta	gacctcagtg	agatatctgc	1080
cccaaattca	gattgttaga	cttttcaaga	gagaacattt	atcttctgatg	tttagtctat	1140
atattattgtt	tccatccaca	taaatccctt	aacttccctat	ctttctgaag	atttttaaaa	1200
ttattttttc	tagtgcccta	tgattttatt	atatacacat	gtatttgtca	tgtattttga	1260
aaggggcatg	aacataatca	actgttttaa	ttagaaaact	ctttaatggt	ttcaatgctc	1320
actaaaaatc	cttttaaaact	atgactttct	tgactgcttt	atcttgacat	atctattgat	1380
ttgctaagtc	acctctatga	ctaatttctt	cctgggtgtaa	caatgcatcc	acataaaaact	1440
ttctaagttg	tacttatgag	aatgtatttc	tgttgccaaa	tatttttaaat	atttcaatta	1500
atattctata	tcatagcatg	catagcagg	ttgattgaa	ttgatttttt	aaatcataat	1560
tttgcatcca	taactctgtt	aaagtagatg	tttatattta	atgtcaaaaa	aaaaaaaaaa	1620
aaa						1623

<210> 422
 <211> 825
 <212> DNA
 <213> Homo sapiens

<400> 422
 ccacgcgtcc gtgctgaggt agaggcagcg caagaagagg cctttgccgc tggctcgggat 60
 tgggatgtcg aagaacacag tgtgcgtcgg cccgcttccg gaagggtggac gtggatgaat 120
 atgacgagaa caagtctgtg gacgaagaag atggggggcga cggccaggcc gggcccgcagc 180
 aggggttaggt gggactcctg cctgcggcaa tgatccttgc attcaccgcc ctccccaccc 240
 cagcccagcc cagcccgcgc ttctcctggg gacccgggag cctgcaggat ccgcggggca 300
 ccggcgcgga gctgcctctt caacctgcgc cttaacctgt ctctttggga tcgcccgtct 360
 tgaaaaggca agggggaatc ccccgtttcc taccagtcg gcaggaaaacg cgaagggtccc 420
 actcttggaa acctgccttc ccccgcgcg cttccacgcc ccagattcc tcaggttgga 480
 cccgaatgcc tgctgccttc gggaaactgg cccgcgggcc gcgcctctgc ggcgctttgg 540
 ggaagcggtc ccttgctggg ggggaaggct ggtgccgaac gccttagttt ttcttcctag 600
 aactctgatt tcctggggtc acattagctc cagaaaatttc tgattgtggg gaacctgcat 660
 ctctccttag tggttttgtt ttttgttgtg tttttgttat tggtagcgtt aacgtagttt 720
 attccttacc gggggggcgg gggagatggg actgttcgaa aattgagggg ccctgtgctt 780
 tcagcccatt ggccttttta aaaaaaaaaa aaaaaaaaaa aaaaa 825

<210> 423
 <211> 2221
 <212> DNA
 <213> Homo sapiens

<400> 423
 ccttgctctc ggcttggaaac atagcttctc ttttatatgg ttaacaaatg cctattttgtt 60
 tgggtggcctg gcaaacgaaa gcgaagattc aaacaataat gttcccagat atttaaatga 120
 tttttatctg ttggagctac agcatggctc tgggtgtgtg gtttggagca ttccagtgac 180
 taaaggggtt gtgccttctc caagagaatc ccacacagct gttatatatt gcaaaaaaga 240
 ttctggaagt cctaaaatgt atgttttttg tggaatgtgt ggtgctcgcc tggatgacct 300
 atggcagctt gacttagaaa ctatgtcatg gtcaaaaacca gaaactaaag ggacagtgcc 360
 acttccacga agccttcata cagmcagtgt tataggaaac aagatgtaca tttttggtgg 420
 atgggtccca cataaggggg aaaatactga gacttcacct catgattgtg aatggagatg 480
 taccagttca ttttcttacc taaatctgga tacaacagag tggaccaccc tagtatcaga 540
 ttctcaggaa gataaaaaaa attcaagacc aagaccaaga gctggccact gtgctgttgc 600
 aatcggcact cgattgtatt tttggagtgg aagagatggc tacaaaaaag cactgaatag 660
 tcaagtttgc tgcaaggatc tttggtatct tgatactgag aaaccaccgg caccatctca 720
 agtacagctg atcaaagcca ctaccaactc ctttcatgtc aagtgggatg aagtgtctac 780
 agttgagggc tatcttttgc agttgagtag agacttgcca taccaagctg catcatcaga 840
 ttcttcagca gcaccaaata tgcaaggagt caggatggac cctcacagac aaggcagtaa 900
 taacatcggt cctaacagta tcaatgatac aataaacagc acaaaaactg aacagccagc 960
 cacaaaagaa acttcaatga aaaacaaacc agactttaaa gcaactgacgg attctaattgc 1020
 cattttatat ccatcttttg catcaaatgc ttctaatacat aatagtcatg tgggtggatat 1080
 gctaaggaaa aatgaaggtc ctcacacttc agcaaagtga ggtgttctaa gtagttgcct 1140
 ggatgtaaga acagtaattc ctgaaacatc tgatccagt actgtttcca gcacacaaac 1200
 tatggtaacc cagcagacca ttaaaactga atcatccagt acaaatgggg cagttgttaa 1260
 agatgaaact tcaactaaca cattcagtag caaatctgaa gttgatgaaa catatgcact 1320
 gcctgcaacg aagatcagcc gtgtagagac acatgctaca gcaacgccgt tttctaaaga 1380
 gactccttca aatccagtgg ccacagtga agcgggagaa cgacaatggg gtgatgtggg 1440
 aattttttaa aataatacag ctttgggtgag ccagttttat ttgctgcaa aagggaagca 1500
 aagcatctca aaggtaggaa atgcagatgt acctgactac agcttgctta agaaacaaga 1560
 tcttgktcca ggcacaggat acagattcag ggttgctgca atcaatgggt gtgggatagg 1620
 tcctttcagc aaaatcagtg aattttaaacc ttgtattcct ggttttctct gagctccttc 1680
 tgcagtcaga atttcaaaga atgttgaagg tatccacctt tcctgggaac ctccaacctc 1740
 accttctgga aatatttttg aatattcagc ctacttggct atccgcacag cacagataca 1800
 agataatcca agtcaacttg tgttcatgag gatttattgt ggtcttaaga catcatgtat 1860
 agtaactgct gggcaacttg caaatgcaca tattgattat acatccaggc ctgccattgt 1920
 gttcaggata tcagcaaaga atgaaaaggg atatggacca gctacacaag ttcggtggct 1980
 tcaaggtaac aataagaaag cacctttaa tgaattgggt ttttttactg aagctattgt 2040

gatgatgatt	atattattag	aactgggtat	gaagatttgt	cattttaaag	agtattctct	2100
ggctgtattt	ccagcagtta	tgaacttgag	tttgtaaatt	gttcttaaaa	tgtattttgt	2160
gaattataga	tccaaataaa	agaaaagaag	caaagacaaa	aaaaaaaaaa	aaaaactcga	2220
g						2221

<210> 424
 <211> 1662
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (382)
 <223> n equals a,t,g, or c

<400> 424						
gcgcgttcct	gcaaaggtag	aggcacgggc	tgggggcgac	caggacgggtg	cccgcccaca	60
agtacgtctt	ggctgtcggc	agctccgtct	tctatgccat	gttctacgga	gacctggcgg	120
aagtcaaattc	tgaaattcac	attccagacg	tggagcccgc	agcctttctg	atcctcttaa	180
agtacatgta	cagtgatgag	atcgatctgg	aagccgacac	ggtgctggcc	actctgtacg	240
gtgctaagaa	gtacatcgtc	ccagcattgg	caaaagcctg	tgtcaacttt	ctggagacaa	300
gtttggaagc	caagaacgcc	tgcttccctg	tgtcccagag	ccggctgttt	gaggagcccc	360
agctgacgca	gcgctgctgg	gnaggtcatt	gacgcacagg	ccgagatggc	cctacgggtcc	420
gaagcttctg	tgagatagac	cggcagacgc	tggagatcat	tgtcactcgg	gaggccctca	480
acaccaaaga	ggcgggtggc	ttcgaggccg	tcctgaactg	ggccgaggcg	gagtgcaga	540
ggcaggggct	gccaatyacc	ccacgaaaca	agaggcatgt	tctggggcga	gccctctatc	600
tggtccgaat	tccaaccatg	accctagagg	agtttgccaa	cggsgctgcc	cagtcagaca	660
tcctgactct	ggaggagacc	cacagcatct	tcctgtggta	cacggccacc	aacaagcccc	720
gcctggactt	ccccctgacc	aagaggaagg	gcctcgcccc	gcagaggtgc	caccgattcc	780
agtcttctgc	ctaccgcagc	aaccagtggc	ggtagcgcg	gcgctgcgac	agcatccagt	840
ttgcagtggg	cagaagggtg	tttattgcag	ggctgggcct	gtatggctcc	agctctggga	900
aggctgagta	cagcgtgaag	attgagctca	agcggctcgg	ggtggttctg	gctcagaact	960
tgaccaagtt	catgtcgac	ggatccagta	acaccttccc	ggtctgggtt	gaacaccggg	1020
tccagggttg	acaagacacc	ttctacacgg	ccagtgccgt	cctggacggc	agcgaactca	1080
gctacttttg	gcaggagggg	atgacggaag	tgcagtgtgg	aaagggtggc	ttccagttcc	1140
agtgtctctc	ggacagcacc	aacgggactg	gggtccaggg	tgggcagatc	cctgagctca	1200
ttttctatgc	ctgagggtgc	cggggagggt	gcagcagggt	agcgagttag	tggaggggaa	1260
gtcaagatgc	taactgcttc	ttgacaccat	gaaaggctgc	tcttaacttt	gtctctcttt	1320
gacatgtagt	cagctgaagc	ttgactgtgt	agagacattt	tccacacagc	cagaacccag	1380
ggattggagt	cttaggcata	tctgggtacg	tgggggtgcac	gtctcagggt	gaggaagatt	1440
tacgggtcaa	gacaggcccc	agatccccct	ccagtggcac	ccaygccacc	tgctttgagg	1500
ggttggatct	tcctgctacc	ctcttggatt	ctaagtgggt	ccaagcttaa	cttgagacct	1560
tcccttcaaa	tctaaaattg	gcaaaaagtc	acttaaaata	gtggacttct	gtaataaagg	1620
ttgcctaaaa	taaaaaaaaa	aaaaaaaaaa	ctcgaggggg	gg		1662

<210> 425
 <211> 2055
 <212> DNA
 <213> Homo sapiens

<400> 425						
ggcacgagtt	tcccacctcg	gctgcacctg	ggcactggag	gctgaagagc	atgcccccta	60
gcttcgggtac	tctgacacct	tctcttgcac	ttgcggatga	tgaactggaa	taacgatgaa	120
agaaagcaca	tccgatctca	acattcacgt	cctgccctat	aaccgattaa	ttaattgatc	180
cccagctaga	ctagtgttgg	agaaatcagc	atgttaaaac	aactgttgat	gatagctgtt	240
ggagtaaaagt	tgagtggaa	gctatggctg	caaaatcggt	aaaatcttca	aggtgaactg	300
gcacaaaggt	taatctcaag	atgccgctag	tgaaaagaaa	catcgatcct	aggcacttgt	360
gccacacagc	actgcctaga	ggcattaaga	atgaactgga	atgtgtaacc	aatatttcct	420
tggcaaatat	aattagacaa	ctaagtagcc	taagtaaata	tgctgaagat	atatttggag	480
aattattcaa	tgaagcacat	agtttttctt	tcagagtcaa	ctcattgcaa	gaacgtgtgg	540
accgtttatc	tgttagtgtt	acacagcttg	atccaaagga	agaagaattg	tctttgcaag	600

atataacaat gaggaaaagct ttccgaagtt ctacaattca agaccagcag cttttcgcgc 660
gcaagacttt gcctattcca ttacaggaga cgtacgatgt ttgtgaacag cctccacctc 720
tcaatatact cactccttat agagatgatg gtaaagaagg tctgaagttt tataccaatc 780
cttcgtatctt ctttgatcta tggaaagaaa aaatgttgca agatacagag gataagagga 840
aggaaaagag gaagcagaag cagaaaaaatc tagatcgtcc tcatgaacca gaaaaagtgc 900
caagagcacc tcatgacagg cggcgagaat ggcagaagct ggcccaaggt ccagagctgg 960
ctgaagatga tgctaattctc ttacataagc atattgaagt tgctaattggc ccagcctctc 1020
attttgaaac aagacctcag acatacgtgg atcatatgga tggatcttac tcactttctg 1080
ccttgccatt tagtcagatg aggtgagctt ctgactagag ctgaggaaag ggtattagtc 1140
agaccacatg aaccacctcc acctccacca atgcatggag caggagatgc aaaaccgata 1200
cccacctgta tcagttctgc tacaggtttg atagaaaatc gccctcagtc accagctaca 1260
ggcagaacac ctgtgtttgt gagccccact cccccacctc ctccaccacc tcttccatct 1320
gccttgtaaa ctctctcatt aagagcttca atgacttcaa ctctctcccc tccagtacct 1380
ccccacctc cacctccagg cactgctttg caagctccag cagtaccacc acctccagct 1440
cctcttcaga ttgcccctgg agttcttcac ccagctcctc ctccaattgc acctcctcta 1500
gtacagccct ctccaccagt agctagagct gccccagtat gtgagactgt accagttcat 1560
ccactcccac aaggtgaagt tcaggggctg cctccacccc caccaccgcc tctctgcct 1620
ccactggca ttcgaccatc atcacctgtc acagttacag ctcttgctca tctctcctct 1680
gggctacatc caactccatc tactgcccc ggtccccatg ttccattaat gcctccatct 1740
cctccatcac aagttatacc tgcttctgag ccaaagcgcc atccatcaac cctacctgta 1800
atcagtgatg ccaggagtgt gctactggaa gcaatacgaa aaggtattca gctacgcaaa 1860
gtagaagagc agcgtgaaca ggaagctaa catgaacgca ttgaaaacga tgttgccacc 1920
atcctgtctc gccgtattgc gtgtgaatat agtgattcgg aagatgattc agaatttgat 1980
gaagtagatt ggttggagta agaaaaatgc attgataaat attacaaaac tgaaaaaaa 2040
aaaaaaaaa aaaaa 2055

<210> 426

<211> 829

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> n equals a,t,g, or c

<400> 426

cggggctnca ggaattcggc acgaggcaaa cttgagtttc ccatgctctg tggctgagca 60
agtcacttca ccattctcag gatggaagtg gggatggagg tggcatcggc ctcatctgaa 120
ccacatggac taagaggggc tatgggagta ttccccaag gaagactgag gggcgttact 180
agaaaatggg agaatggaag cagagtgggc aaaaccaaca gatgttcctt atagtaaata 240
aaaaatttgg acaattatta gtgagcaagt acttataaca tatatggcac atgggattgt 300
gactcaccag tgtgttagca caatatggtc aaaaacctct gatccaattc aacctactca 360
tcttaacgat tttatcagca ttttaataag ttgttttggc catcatgtgt tatagttttg 420
tttgtggttt tgacacctca ttagaggttt catcagtgtg aggagccaac ctaagagctc 480
ttctcacaag ttccccaaga gagaaattgc ccctccaaat gtgaggagtc tcactttata 540
tagatagcat ccacattct tgcagtggaa aacaaacctt ataaaatgta atacgttttg 600
tttcctaact ttttcatgac cctgggggtg tagaaggaag tgcaagtgtt atcacttgga 660
tttagagaca aggaaattga aatggagaga gaattgggct cacatgcagg cagcatgtct 720
agctgcctcc atcgtgtgat ctgaggcacc ccatgaggcc tatgattact gtaaacctct 780
aaaataaata aaaaataaaa caataaaaaa aaaaaaaaaa aaactcgag 829

<210> 427

<211> 1247

<212> DNA

<213> Homo sapiens

<400> 427

aattcggcac gagagtccac acagcaatct cctttcctct tcagtggagaa cacctctcct 60
ttgatcaaca ttattttatt ggcttagttt aaaattcctc ttgaggagaa gtttctggga 120
ctaaacattt gaaaatattt gaaataaaaa aattacctgt ttttaagtga caaaaattat 180

taattttataa gttacttagg aatgtttctca ggtgcaagta acagatgaca caaacacagc 240
 agattgaatc ggcgatggta caattttctc atgtaacata aatgcagcag ctgcatttgt 300
 tgggtggctc agtggccttt tgggcttttc cttcatgggt gcaagatggc actactccaa 360
 ctcaagcatc atgtttgtat tcaagacaga aggaaagggg gacggtttgt atcagtcact 420
 ctgacccttt tatcagaatt gcataagtgc tcttagaagc agtctgcttc tccctaagat 480
 ctttgctcag atgtttattgg gcagagcttt tttgtgtgtg tagtgtctaa tggttgcaag 540
 ggaggttggg aaaaatgatt cttttttttc tggcttttat agtggaaagca ggcaaaagat 600
 tagttgggtg tagttgttgg gttagccggt catcatgctc tgcccctaag tgctcagaat 660
 actgaagact aaagatgcaa tgacaaacaa gatagtcctt attgtttttg tttgtttgtt 720
 tgttttttgt ttttagatac agctataatt ttattacaaa actgttcttt tggcattagt 780
 tagttacagt gatagcaaga taatgtgagt gtgcagactg gctctgatgg aaccactgta 840
 ttccctgctt actgaaccaa acttcagcta cctcatatcc attacataca agtgacctgc 900
 agttattact gctacaaatc ttgacgcgtg taccgctgag ggaggagctg atgctaaggg 960
 atttgattac atgttgataa gactacaaaa gttcgtttat gggacttttt ctctctcttc 1020
 ccatgcaatg actttgcttt agaacaatca catggccttag agctagtctg agtagcagca 1080
 gcacccaagg agcgtcagtt cttgttaaaa agcaatacct gtgtgatgca tttttacgcc 1140
 acaggcaaaag ggaaggatca ccctcatttt aaactcctgc agagtccttt aataaaatat 1200
 caaagcattc caaaaaaaaaa aaaaaaaaaa aactcgaggg gggggccc 1247

<210> 428
 <211> 1587
 <212> DNA
 <213> Homo sapiens

<400> 428
 aattcggcac gaggtcgact ggaataacttg ggagatgaga tgacaggtct ggtcatgacc 60
 aagacaaaaa ctcagcgtgg cctcatggag cccatcactc acatcaggaa gccccactcc 120
 atccgggttg agacaggatt accagcccag agggacgctt cataccgcta cacctgggat 180
 cggagtcctg ttctgatcta ccgacgcaag gagctgcaga gaatcatgga agagctggat 240
 ttcagccagc aggatattga tggcctggag gtggtgggca aagggtggcc cttctcggct 300
 gttactgttg aagactacac agtgtttgaa agaagtcagg gaagctcttc tgaagacaca 360
 acatacttag gcacattggc cagtctctct gatgtctcca tgccatttct cgcccttct 420
 ctgctgttct gtgggaagcc agcttgctgg atcagaggca gtaatccaca ggacaagagg 480
 caggttggga ttgctgctca cttgaccttt gaaaccctag aaggcgagaa aacctctca 540
 gaactgactg tggtaataaa tggcaccgtg gccatttggg atgactggcg acggcagcac 600
 cagccggaca ctttccaaga ccttaagaaa aacaggatgc agcgatttta ctttgacaac 660
 cggaaggtg tgattctgcc tggagaaatt aaaacattta ctttcttctt caagtctttg 720
 actgctgggg tcttcaggga attttgggag tttcgaacc atctactctt attaggaggt 780
 gctatactgc aggtcaatct ccacgcggtc tccctgacct aggacgtttt tgaggatgag 840
 aggaaagtac tggagagcaa gctgactgcc catgaggcag tcaccgtcgt tcgcgaagtg 900
 ctgcaggagc tgctgatggg ggtcttgacc ccggagcgca caccatcacc tgtggatgcc 960
 tatctcaccg aggaagactt gttccggcac agaaatctc cgctgcatta tggagcacca 1020
 agtgggtcaa agccctgcac caactgtggc gccagtacat gaccctgccc gccaaggctg 1080
 aggaggccag gccaggggac aaggagcacg tcagcccat agccacagag aaggcctctg 1140
 tgaatgctga gctgttacca cgcttttaga gccccatctc cgaaactcaa gtgccccggc 1200
 ctgagaacga ggccctcagg gaatccgggt cccagaaggc cagagtgggg accaagagtc 1260
 ctcagtggaa gagcatcatg gaggagatcc tgggtggagga aagcccagat gtggacagca 1320
 ccaagagccc ctgggagccc gatggccttc ccctgctgga gtggaacctc tgcttggagg 1380
 acttcagaaa ggtccgtggg ctgctggaca ccctggtgac cgacctgatg gtccctggctg 1440
 atgagctcag ccccataaag aatgtcgagg aggctttgcg cctctgcagg tgactctcgg 1500
 gcccaagcaa ctttctggaa aacgggttaa taaataaatc aataaagaac cttcaagttt 1560
 ctactaaaaa aaaaaaaaaa aaaaaaac 1587

<210> 429
 <211> 2179
 <212> DNA
 <213> Homo sapiens

<400> 429
 ggaattcggc acgaggatct gtcttcctcc tatttgcctg agcagaccg ccctgagtct 60
 aattgacaca ccaggtgggt ttatgggctt ctcttcctc ccaagcatcc cacagccacg 120

095005660
091230
160

ttgcctattg	tctttgtggc	aagtcttgcc	cggcagccta	gcttcagagc	aatgtaagtg	180
gttgctgtta	tacccttcta	cccacatgt	gctggaaaga	ggagcatcat	gactaaaagg	240
catgactcat	gttctaatac	atggcactac	tgatcctact	tttctgcatt	ttaaagtaca	300
aacagctgga	tattgctgaa	gatggctcag	ggggctcaagg	acaaatttca	caaatgtgac	360
ctcattctcc	aggctgcctg	tttatcctgg	aggttgatct	tggacttggg	gaccatttaa	420
ggttgcctat	cttcaaagtg	ctcagcttgg	cttttttaatt	ctatactcct	aaatccttga	480
cagctgtgca	tcaacaagct	ttcaaggtaa	ctgaagccta	gggcagcttt	ctgccctctg	540
ttactgggtga	atgtttttgc	ctgttggaag	gacgttgcag	ctacaggcag	actcccacca	600
tccaccaacg	gccttattgt	caatccatag	tcgtgtgctg	actgcaaagt	ggcctgagtt	660
ttttgcatat	cttgtgagat	cactatggga	acgcagtcac	tataatacag	cagttcctgt	720
cttgaggact	tttgatagtt	ttatttctta	cagtttccatt	tcctattgat	acaaaagaga	780
ctcttggtaa	ccaaaaataa	atgtaaccag	aaatgtcggg	ttctttgttt	catatatgaa	840
catgattttg	taatgtaaat	tgaataagcc	cagatctatt	atgcaactat	atactctcgt	900
aacaagttag	tcacagaagc	ctccgtcaac	actgacatat	tgatgacctt	aagaagttag	960
tgattaccta	tgatgtacaa	caaacaaggc	tggtagctgc	cagcagaaac	taggcataac	1020
tacttctagt	aagtactact	actagtctta	aaattttaa	taaatcagct	cacaccttat	1080
tttgtgctgc	taccactaaa	atccaagcca	ccatgacatt	atcactaacc	tggactacta	1140
actcatcttt	ccgctttcac	tctgaccccc	tccattcatt	ttccctgggtg	aagctagtgt	1200
catcttataa	gtaaatcaga	tcattgtcatt	catctcaca	ctcatctgct	ttccatctca	1260
ccgcaggata	gaatccaaac	tcattaccat	gggtccgtgag	acccctctgtg	atctggcctg	1320
cctgactctc	cgatctcatg	gcattaccac	tcccttccct	cttgtgatga	tctgtccgca	1380
acgacttttg	tggttctcat	gcctggccca	ctatgtgcag	acatgcagg	tgtacaatgc	1440
ataactccaa	gagaggcatt	cagtaggctg	cagggtgaat	gatgcccttg	gaagtatgta	1500
gtgtgggtgac	cctggtcaca	cgcacagctc	tttcttacca	caaagccttg	gcacttgctg	1560
gcctttctgc	ctggacatcc	atctgaagat	tttttgcaca	gctggctcct	tcttgtcatt	1620
cccttgacaa	atattccacc	aaacactact	ccataccagg	gaggctccat	accaggcagg	1680
accagctata	tactttgcag	gtcccagctg	aaaatgaaaa	ccagggcccc	ttgttcaaaa	1740
agtattaaga	atttcaagac	ggtgacagca	gaacattaaa	ctaagcatgg	ggcccttctc	1800
agtgcggggc	cctgtgggac	aacataggct	acacctccat	caagatggta	aggggtttcac	1860
atgtattcat	gaactcaatt	gtatttttaa	gttttagtaga	aattgcacaa	ttataaactg	1920
gttagtgtat	atttacctct	gcctttggaa	gttaaagttt	tttttttttg	aactaaaaat	1980
tccttaagtg	taatttcatc	cttgaaaagt	caaagatttg	ttgttttggc	atattgtcaa	2040
gtttttaaaa	tttaaaatac	agttagttca	aaatatattc	acagctttca	ttcatgagac	2100
atttataaat	attgggttat	aaagttccac	atttagtatt	taactcaaaa	aaaaaaaaaa	2160
aaaactcgag	ggggggcccc					2179

<210> 430

<211> 2167

<212> DNA

<213> Homo sapiens

<400> 430

aattcggcac	agggatctgt	cttctctcta	tttgcttgag	cagaccgcgc	ctgagtctaa	60
ttgacacacc	aggtgggttt	atgggcttct	ccttctctcc	aagcatccca	cagccacgtt	120
gcctattgtc	tttgtggcaa	gtctttgccc	gcagcctagc	ttcagagcaa	tgtaagtgg	180
tgtgtttata	cccttctacc	caccatgtgc	tggaaagagg	agcatcatga	ctaaaaggca	240
tgactcatgt	tctaattcat	ggcactactg	atcctacttt	tctgcatttt	aaagtacaaa	300
cagctggata	ttgctgaaga	tggctcaggg	ggtcaaggac	aaatttcaca	aatgtgacct	360
cattctccag	gctgcctgtt	tatcctggag	gttgatcttg	gacttgggac	catttaagg	420
tgcttatctt	caaagtgtct	agcttggtct	tttaattcta	tactcctaaa	tctttgacag	480
ctgtgcatca	acaagctttc	aaggtaactg	aagcctaggg	cagctttctg	ccctctgtta	540
ctgggtgaatg	tttttgccctg	ttggaaggac	gttgacagta	caggcagact	cccaccatcc	600
accaacggcc	ttattgtcaa	tccatagctg	tgtgctgact	gcaaagtggc	ctgagttttt	660
tgcatactct	gtgagatcac	tatgggaacg	cagtcattat	aatacagcag	ttcctgtctt	720
gaggactttt	gatagtttta	tttcttacag	tttcatcttc	tattgatata	aaagagactc	780
ttggtaacca	aaaataaatg	taaccagaaa	tgctcgattc	tttgkttcat	atatgaacat	840
gattttgtaa	tgtaaattga	ataagcccag	atctattatg	caactatata	ctctcgtaac	900
aagtgagtca	cagaagcctc	cgtcaacact	gacatattga	tgaccttaag	aagttagtga	960
ttacctatga	tgtacaacaa	acaaggctgg	wagctgccag	cagaaactag	gcataactac	1020
ttctagtaag	tactactact	agttctaaaa	tttaaattaa	atcagctcac	accttatttt	1080
gtgctgctac	cactaaaatc	caagccacca	tgacattatc	actaacctgg	actactaact	1140

cacacagtgt	atgctaattg	cacaccacaa	accaggctct	ggagatgata	aaggaagcct	480
gtctttgtcg	ccacccttga	acaagctgaa	gctggtgcac	tcaaacctgg	aagatgaccc	540
tgaggagatc	cggatggaat	tcataaagta	tttaaaaagc	ataatcaact	ccatgtctga	600
gagcagagac	agggaggaga	tgtcaattat	gacctagcca	gccttcacct	gggactgcca	660
catccccagt	gaaatcagca	tgtttctcgg	tgcagatctg	aaatcacatc	cagctcctga	720
tgttttcttc	tccctctgac	tgcagaggaa	gtgttcctac	ctgcaggaag	gcacctgtca	780
cacagggcgt	tcactcagac	catctgtgct	ctgccctgag	ttcagttgag	aaaatcctat	840
tatcaaattt	ggatttctctg	gccccagaac	ttcccaaaga	cctgtaaaat	ggagggattt	900
accacctcac	atatgtccag	ttaaacagtt	tgtggacttg	taaccgtcgc	agcccaatga	960
tacaacagta	gtttaatcac	gtgtattggc	ttgaatgtga	ttttcattcc	ttgattcacc	1020
caacaaatac	cgactggctg	agcacctgct	gtgtgtgcac	tgctgttcta	gctgctgacc	1080
atagacagca	taaatgaaaa	agacagaaat	tcccaccttc	gtggaactct	ccattttcct	1140
aaatgttagg	ttggtgcaaa	actaatcgtg	gtttttgcca	tttttaattt	ttaatggcaa	1200
aagccactat	tacttttgca	ccaacctaat	aggccgattc	agaaacttga	gtgcaatgtc	1260
ttggatatgc	aaa					1273

<210> 433

<211> 1282

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (907)

<223> n equals a,t,g, or c

<400> 433

ggcacgagcc	ttaccctctt	gctggcaaga	ggggacctga	ttcatcctca	cgctaaacac	60
tcattctacc	caactgattg	agacagaaca	gaagataaac	tgaaacttct	ctgccttccc	120
gctgcaagag	tgaatgagcg	atccctctca	actgactcaa	aatgtttgcc	tcaccaggga	180
gatggagctc	tcgaaggcct	tctctggcca	gcggacactc	ctatctgcca	tcctcagcat	240
gctatcactc	agctttctcca	caacatccct	gctcagcaac	tactggtttg	tgggcacaca	300
gaaggtgccc	aagccctgt	gcgagaaagg	tctggcagcc	aagtgccttg	acatgccagt	360
gtccctggat	ggagatacca	acacatccac	ccaggagggtg	gtacaatata	actgggagac	420
tggggatgac	cggttctcct	tccggagctt	ccggagtggtc	atgtggctat	cctgtgagga	480
aactgtggaa	gaaccagggg	agaggtgccc	aagtttcatt	gaacttacac	caccagccaa	540
gagagaaaat	cctatggtta	tccctgggaa	cgcagatcac	ctacatcgga	cttcaattca	600
tcagcttctc	cctgctacta	acagacttgc	tactcactgg	gaaccctgcc	tgtgggctca	660
aactgagcgc	ctttgctgct	gtttcctctg	tctgttcagg	tctcctgggg	atgtggccca	720
catgatgtat	tcacaagtct	tccaagcgac	tgtcaayttg	ggtccagaag	actggagacc	780
acatgttttg	aattatggct	gggccttcta	catggcytgc	tctccttcam	ctgctgcatg	840
gcgtcggtcg	tcaccamctt	caacamgtac	accaggatgg	tgctggagtt	caagtgcaag	900
catagtnaag	agcttcaagg	aaaacccgaa	ctgcctacca	catcaccatc	agtgtttccc	960
tcggcggtcg	tcaagtgcag	ccccaccgt	gggtcctttg	accagctacc	accagtatca	1020
taatcagccc	atccactctg	tctctgaggg	agtcgacttc	tactccgagc	tgcggaacaa	1080
gggatttcaa	agagggggcca	gccaggagct	gaaagaagca	gttaggtcat	ctgtagagga	1140
agagcagtgt	taggagttaa	gcgggttttg	ggagtaggct	tgagccctac	cttacacgtc	1200
tgctgattat	caacatgtgc	ttaagccaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaactc	1260
gagggggggc	ccggtaccca	at				1282

<210> 434

<211> 806

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> SITE
 <222> (29)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (37)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (44)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (143)
 <223> n equals a,t,g, or c

<400> 434

ttttgacccg	gattaacaaa	ttttnaccnc	caggaancag	gctnttgacc	aatgatttac	60
cgccaagctc	gaaattttacc	ccttcactaa	ggggaacaaa	agctggagtt	ccaccgcgtt	120
ggcgcccgct	ctagaactag	tgnatcccc	gggctgcagg	aattcggcac	gagcggcacg	180
agcgcaaagc	catcgtggac	aagtttggcg	gggcagcttc	cgccccacg	gccttggtcc	240
gcaacactaa	ggcagccggg	gcagccattg	gtggtgtcaa	gaacatgctc	ttggagtggg	300
gccgagccat	gacaaaaaaa	tacgagcatg	tggacatcca	gaacttctcc	tccagctgga	360
gcagtgggat	ggccttctgt	gccctcatcc	acaagtctct	ccctgacgcc	tttgactacg	420
cagagctgga	tcccgcaaag	cgccgggcaca	acttcaccct	ggccttctcc	acagcagaga	480
aactggctga	ctgtgctcag	ctgctggacg	tggatgacat	ggtgcggttg	gctgtgcccg	540
actccaagtg	cgtctacaca	tacatccagg	aactgtaccg	cagccttggtg	cagaaaggac	600
tggtgaagac	caagaagaag	tgaggaggtg	actggctctg	tgggcagaga	tgggcagggt	660
gccagctca	gcagccacgg	cccgggggtt	cccttctgct	ccatggaggc	accagagcca	720
ggggccttagg	caagggtgtg	tggcggttgt	tttaactgca	ttaaaagtac	ttttgtaaaa	780
aaaaaaaaaa	aaaaaaaaaa	ctcgag				806

<210> 435
 <211> 981
 <212> DNA
 <213> Homo sapiens

<400> 435

ggcacgagct	cgtgccggtg	ctctccagac	ctcctctcta	aactgcttca	ttgacctaa	60
tcactctctt	caatcccacc	tttgttacgt	tgaaatccct	catttatatt	cttctcaaaa	120
tgccatttat	ccaaatgcag	aacctctgca	tctccaagcc	agttatgctg	aatttgtaa	180
acttagacac	ccttgacaac	tgcactccta	ctgtaggctc	ctgtgcatac	tgtcgtcttc	240
tgtgggggat	ggagaggtta	gtgtgatgag	gtggtgtctg	cccaggaggt	ttctttcaaa	300
catcatggcc	tcccattcaa	tcaacatcat	caaattacat	gtgtaatcaa	ggctctgtgc	360
catgggggaa	atgaatcatt	tagctaggcc	aggatctagt	gaaagccaca	gagtttaaaa	420
ccatgaaaga	agttgaaggc	agcattcctc	agctctgtga	cttgtgaccc	tatttgaagt	480
ttcaggattt	gggtgtcaca	aaggattgtc	cctaattcct	ggccctgggg	tcttccgagt	540
gagctgggtt	aatactctga	gaatgagcag	ggagatccag	agaatgaatc	cctgaccgca	600
tcacctaaac	tgtcttccaa	acatgagaca	aagctgactg	ttcacactga	ttgcccagca	660
cataccgtct	tgccagtttc	ttcttttctc	ccagtctcct	gttcatccat	tctgttctcc	720
cttgggggtg	gaatctatga	tggagggttac	tggggaaaca	gctcagcaga	tttttgagga	780
ccaaacaaa	ggtctcacta	ggaaatttat	ctgtttttaa	acattgcttc	cttcttggt	840
ctgctaaatt	gaatgctcat	tgtttgttgt	tgtttgtttt	taattcta	gttcaaaatc	900
ctgcgtgctg	tatgaatcta	gaaagcctta	atttactacc	aagaaataaa	gcaatatggt	960
cgtaaaaaaa	aaaaaaaaaa	a				981

<210> 436
 <211> 1402

<212> DNA
<213> Homo sapiens

<400> 436

ggggaaggcc	ccggaccgc	aggaccccca	ggacgcggag	tccgactctg	ccaccggatc	60
gcagaggcag	tccgtcatcc	agcagcctgc	cccggacagg	ggcacggcga	aactgggaac	120
caagaggccg	caccccagg	atggggacgg	gcagagcctc	gagggcgtct	ctagctccgg	180
cgacagcgca	gggctggagg	ccggcagggc	cctggggctg	acgagccggg	cttgctccgc	240
gggaagccct	atgcctgcgg	cgagtgcggg	gaggccttcg	cgtggctctc	gcacctgatg	300
gagcaccaca	gcagccatgg	cggccggaag	cgctacgcct	gtcagggctg	ctggaaracc	360
ttscacttca	gcctggccct	agccgagcac	cagaagaccc	acgagaagga	gaaaagctac	420
gcgctggggg	gcgcccgggg	cccccaaccg	tccaccgcg	aatcccaggc	gggggctarg	480
gcgggcggtc	ccccaragar	cgtggagggc	gaggctcccc	ccgcaccccc	agaggcgag	540
agggtgagccg	ctgtgctgtc	ccgttcggga	ggggcgctt	tgccggccgt	gaatcccaga	600
cgaggcattg	ggcctttcca	cgccctggg	tggcggcttc	ctgtggtgtt	tgtggacgtc	660
ctctgcctgt	gccctgaatc	cgctcctgag	gctaagcgct	cccaacgaga	agggtccacg	720
ggaagccctc	acctctgtaa	acacaccctg	ggccagcgct	cgcatccgag	gggagccgcc	780
ggatgtggaa	gaagactcgg	ctttcctgca	gccatttagt	gccgccccat	gctaggttat	840
ttgacattgt	gcagtgtaga	gttgccctaa	agtgcgtgat	ctgccagtgc	tttcttcaag	900
tcacccttgc	cccgattcct	cctgtttgcg	ctccccagg	ttgctcaagt	ggaaattttg	960
tcagctgttt	agccttttgc	tacttggcgt	gatgtcaact	tcacttctaa	tctgcaaaag	1020
cagaagctgt	ttcctagttt	acctcgcggt	tgtttaccta	tatggagtag	ctcgcagaga	1080
tcacagaaat	gcttgcagcc	taaggcaggg	ttttcagacc	gtgggtccca	gccattttag	1140
taaaatggga	aatcaattag	caagtgggtca	ccagcattac	acagcaatga	agcagaataa	1200
agtagggccag	aatgcacat	gtagtaaagg	caaatactgt	tttgtgaaac	ttttcaccca	1260
tacatctaaa	tgtgagaact	ggttgcaatg	taagacattt	cttgctggga	agttgtgagc	1320
aaaataagtt	gaaaacacta	ataaagatct	gtctgtctga	gcaaaggaga	ctaaactcct	1380
tgggctacat	aaaaaaaaaa	aa				1402

<210> 437
<211> 1523
<212> DNA
<213> Homo sapiens

<400> 437

ggcacgaggt	tgtcttccat	ggcctgtttc	tcctgctgtc	tgggtgagtg	agcctgcaac	60
gcaatgcccc	tgagagtaaa	tgccctcctga	cctaccctgc	tcagcactgt	tctagtgtct	120
tggccttgaa	agaaaagcct	gacttccctgc	tgacacatgt	ggtaggggca	tggcagctat	180
gaggcacctc	ctacgtctgt	ttcttggtct	tggtgacttg	ggatttttaa	ccttatatat	240
ctttttcctt	tactcaaaac	aaaacaattt	ttagcacact	gaaaaaaaaa	aaaagccaaa	300
tgttttgtgc	ctttctaaag	cagcactgta	tcaccaggctg	catttttagga	cttaatatgg	360
aaataccaga	gtctgagctc	ctctaccttg	agtttccatta	gtcccttagtg	tctaggagac	420
aggaaagaat	gctctctgtg	actggagagg	tgacatgcag	gtgcagtgtg	tctggagtc	480
ctttcccttg	ctgtgagact	tcagtggagg	agagaagcat	tgtaccctgg	gatcatttgg	540
ttggttccaa	tcacaagctt	agttatcagg	ttgcatgcct	tgtctcctgc	aaaagacaga	600
atgtttcaca	attcccagg	aaactctgga	ccattccaag	tgtcctagcc	ttctgatgac	660
attaattacc	tagttgtgtc	gaggagtata	ggatggactc	tcctgagaag	gggaggttgg	720
tggctttgtc	ttttcttttt	gctggatcct	gaactggctc	agacctcctg	ccccaccccc	780
ccagccccc	tcagatgtgg	ctggcctttc	atttgaaggc	ttcagactta	aagcattaag	840
cagctagtgc	cctctgcagg	gcctgggtttc	cccaggggaag	ggcagcaagg	aacatgggac	900
cagaagcctg	tcctcagtaa	tgtgactata	gtgagcttta	gcaaaagttt	ttctatataa	960
tgacatctta	cttatctttt	accctttcct	cagttttccc	ctgcctttta	ctaataaaga	1020
attgggagac	agaaatttta	aagtcctcct	tattcaagat	tttgaaattc	ttagcctggg	1080
agtgtggag	agaacctgat	gctttctcca	gaatgaagag	tcccaatttg	tatatcagtg	1140
ttaagaagaa	aacaaaacaa	acacataggt	gagattttcg	tggactattt	taaaaatgtg	1200
tcattaatat	aaaaaattta	tattagcagt	atttaacat	tctcacctgt	aaagaataag	1260
aaaaacagaa	ggtaaatatt	cttacagaga	atagcagagc	tttaagattc	attttcattt	1320
taagtccatt	ttattttgcc	agtgtattaa	tgtttagaag	tctgttttac	taatgttatt	1380
tattaatttt	ttttcatttc	catacacagt	tagttaacta	aagagctttt	tcaagcacc	1440
atgtctgtaa	aaaaatattt	ttaaataaag	tttcttttgt	tgtagcagaa	aaaaaaaaaa	1500
aaaaaaaaaa	aaaaaaaaaa	aaa				1523

<210> 438
 <211> 1324
 <212> DNA
 <213> Homo sapiens

<400> 438
 ggcagagtgc agctggaggc caattatcgt aaacgaatta gtgcaggaac cagaatacca 60
 aataccatgt gttctcactt accttaccct taaaagttag atgcccttcc tccatactcc 120
 cacagtaccc tctatatttt tacgagtcac tatattcctc tttactttgt gagcccctta 180
 aaagcagaga ccgggtctgt tttactcact ggtatgtcac tacagtgccca ggctcattgt 240
 ttgcattcag gtggttgttg aatgaacaaa ctcaaatgta actgcctatt tacttgtctg 300
 tctttcctca acaggctgta tgttccttgg tggatggatc tgtggtttat taagctttgt 360
 ttcttttagc atttagcact cagcatgaag acctagcaca cagaagttaa ttgaataaat 420
 aaatttgtca ggattaataa ttaatcttta aaatacagta tatagcattg aagaatatat 480
 agaaagtatt ctcaagatac agagagacac gggtttgytca ggwtatttcc tykgygkttc 540
 acttatagga aagatctcat actacagact acaaatgccca aatgacctac tgtgctcata 600
 ccacccttaa cctagaaata aaatagaaac aattcctaaa gaaacagtct taaaaataac 660
 cagctaaaaat tttatcaaca acaacaaaaa agtagttggg gtttctgctc attaaattag 720
 tttgtatrgg taagcaccac ctaagtttct tgattcatgg catgtgttct taaaccaatt 780
 tactatccac taaaaataaa tgggtgatcat tatataaaaa gcagttgtat ttsttgacac 840
 tagcaatgaa ccatctgaaa atgaaattaa gaacacaatt scacttacag tagcatcaaa 900
 aagaataaaaa tatttagaaa taaattaaac caaagaagtg taagacatgt cactgaaaac 960
 taaaaaacac agttaaaaga atggaaagat agcctatgtt catggattgg aagactgaat 1020
 attgctcaga tggcagtact ccccaaattg atctacagat tcaatgcaat tcctatcaaa 1080
 attccatctt cctctttgka gaaatggaca actggctcta aaattcatat ggaaacttaa 1140
 gggaccccaa ataatgaaca aatgttggaa aagaagaaca aagttcatgg gttcacactt 1200
 tgacttcaaa atttactaca taatcaagac agtgtggtat ggtctgtcat aggacagaca 1260
 tatagaccag tgggaataaaa ttgagtccag aaataaaaaa aaaaaaaaaa aaactcgagg 1320
 gggg 1324

<210> 439
 <211> 2116
 <212> DNA
 <213> Homo sapiens

<400> 439
 ggcacgagcc tgattctaca ctgggaagtt aggggtagaa gcacacagga gccacgact 60
 tacagccagt ggccctgggg gtctcctcca gctccacctc atgacacccc gtgctgctgc 120
 gtgactgctc ctgggtgccaa ggccaccgct gccatgagtc tgaatggcta atgctgagat 180
 tagcagggcc tcccttctac tggcctgtcc tctgggtctc cctccctttt gcctcttctg 240
 gatttcaggt cagtttgaaa gtgggtggct gtctcagctc cctgtgagct tccatttcca 300
 gtctacgcta cggaagtcag agagctcaga cacaaatccc tcccaatggc aaaggtgcta 360
 tagctgcaac ttctcttgca gtgaccgggt gggcagtaat ctgtattagc agaattcctc 420
 tcatgccagc accagctggg ggaggagagg gtagtgcctg ggcattctgc tttgggaaga 480
 aaaaggacaa tcaaaaccaa gtgaaatcca accaccatgg tgtaccaac aggtggagtg 540
 ggctgcaaag tctttaaaca tctcaacagg aatggactgc atactaaatc aattgctcca 600
 ttctgcttga aattagctgt tctcaccaag aatggactgc atactaaatc aattgctcca 660
 ctgaggctgc cataagcttc atgaagcaaa gaatgattca ttcttctaaa gctgtgattt 720
 cctatttgct cacaagccat tgcaggggaa atcctcatct ttcccactca ctgctacact 780
 cactgtgatg tgtttataga ccttcgggga ccacacctcc tccagctgtc tgccttactc 840
 gaaaattaga cccagcttgt ccttgacttc tagtagccag aaagtcttcc acaagatcca 900
 gccgcatgat acggagtaca cacataaatg tgaaaacaaa cccctccatc ctttccact 960
 gtaaatcaac agcacatgcc ctctgtgtct gacaattcct ctcaaagaca gtggctccag 1020
 cagaggaat taaggctggt gcagggtgcc cagaagctga gtcacccggg atgactgggtg 1080
 gccctgaagt cccgccaca gaaggacggc catgggagcc tggcacactg ccccttggtg 1140
 gcacaaatcc tgagcaagcc atgccctaac cttaaacaag gacctaggac tgttttctct 1200
 cccacagcct ctgagaactt gccctttctc tcccaatgtg atttgtaaac aattctccta 1260
 cccagcctca agtaaatatc agagttaagc tggtttcata caccatgttg acagtaaaaa 1320
 tcttagagga cactttcaat ccaccacac tgcagctcag tccatctgca caaagagaag 1380
 accccccccc caccctccat gcggtccaac ttgggggtac atagatggaa aggacagcag 1440

agtcagcagg	tcaactctgt	ctgaaagagg	tccatggcaa	tgtaaatacc	aatctactgg	1500
caaccacaaa	gcacccacat	agacaggcac	tgcaaggaat	ggaggggttg	aagaagcagg	1560
tcttgatgga	gttttaaga	cacaaaacct	ccttccttcc	agggtcaagg	gtttgttgat	1620
tccgctactc	tgatgtggaa	ttcaaagaga	tggataatta	tcataccttc	taagtgtgtg	1680
tttccataat	cagggtccccg	tgcttatcca	catccacact	ccccttctct	cacaaagtcc	1740
tacttgtctc	ctgggagccc	ctgcacgcct	cccctctctg	aatctctgcg	aatttttact	1800
tataaaacag	taacaactct	ctcaaggtca	tcaaaaatgg	cagaacagtg	ttcccccatc	1860
tctgaaaaat	atgaatgtga	gaaacgggtt	catactgctg	agagaattta	taagacttaa	1920
gcagaagaat	cttcagatcc	cccatccccc	agagattttt	gcaaatgagc	cagcccagcc	1980
acaaaaatgt	atgcaaactt	gaagataaaa	tggaaattaa	atatgtttta	aagagaagca	2040
ggcttttgaa	aaatgaggat	tttaataaaa	acagaaatta	cgacaatatt	tctaccacaa	2100
aaaaaaaaaa	aaaaaa					2116

<210> 440

<211> 1768

<212> DNA

<213> Homo sapiens

<400> 440

cgcggtccca	acccttcccc	atggccgacc	ctgaggagtt	gcaggtttct	tcgcgcggcc	60
cgccgcctcc	ctcttctccc	tcctcttcag	acgcctctgc	agcatcttcc	ccgggcggcc	120
cagtgagttt	gggctggcca	gttccgagca	ggagcagcgg	cccaacgggtg	gaccagctgg	180
aggaagtgga	gctgcagatc	ggagacgcag	ccttttcatt	aaccaaactt	cttgaagcca	240
catctgcagt	atcagctcaa	gtggaagaac	ttgccttcaa	atgtacagaa	aatgcacgtt	300
tccttaaaac	gtggcgggac	ctcttgaaag	aaggctatga	ttctttgaaa	cctgatgact	360
gatttggcat	acttcgttgt	ttaataatga	ctgcaataat	tcatacttct	tatgtcatat	420
tttgtacatg	taccacacat	ataggatgac	ctctgtccag	cagttctgta	tatactcaga	480
atgaaatttt	tcttggtttt	cttggttttt	gtgaaagcag	aataccgatg	ctatttttgt	540
tgcggaccag	tacttgtttg	tccttaaaata	ctttatgcct	ctgaactttc	atagaatcct	600
ttatgaaagt	taacttcctc	aatagacggt	taatattaat	agagccacag	tgctaccagt	660
agcaaaactg	gtagaccatt	atltgttttg	caacaagatg	ctaagcatgg	cagactttga	720
agttgcgttt	catcttaagg	accaagggag	gtaactttaa	ggttgccagt	ggtggatcca	780
gctccgttag	gctaagttgt	ctacagctaa	tgatttgttc	tttattctat	atccccagca	840
cctaaaacag	ggtcacacaa	cattcactaa	atgtttgttg	aataaaaagag	ttaacaaaca	900
taattgaaag	ctttttttct	tcctatatatt	agcatgaaga	ctgtcattgt	ttctctagga	960
aatgtatgaa	tctgaacttt	tttgacttga	agaaaaacat	tcctttttta	cagagatttg	1020
gactttgatg	atagggtttta	aaaatatatg	ataaatattt	tttgtacttg	tttgattttt	1080
ttttaaaagc	tttacttcag	aaagggaaag	actgtttaga	aagaatgcat	attttttccc	1140
tatttatttc	tgtggttact	gcttttgag	tttaacagtg	tttgtatttg	atatttgtat	1200
atgtttgatt	gctatcttta	aagtgcctta	tcagattttat	ggctctgtgc	tattactttt	1260
tgagctttgc	aagtttgtga	cataataatt	ctaaagaagt	tactttgttt	gcaatgcata	1320
aaatttaaat	gatgtgattt	tttttgtatt	atltgatctt	agtgcacagt	ttctattttg	1380
catcctgtat	cttatgttgc	ttttggtgtt	ttgtgtttgt	tgtcaacgat	taagccaact	1440
aattctctac	catatataac	ttctggacat	ttttgataca	acatcttaat	tctttgtaga	1500
tatggagata	ggtacagaac	tatatcttaa	tgccccacaa	tggggctatg	agaggggaca	1560
gatggatggg	caaagaatag	ttttgtttta	catattaggt	catagttcct	gattagtttt	1620
tttagttaaa	gataaacaca	taggggtgtg	tttctatacc	aaagatatgc	ttatttcagt	1680
attagaaaaa	tattcttctt	acatctcctg	aaaattgcaa	tttttaaaat	gtgtaaaaat	1740
aaattattat	taaaagcaaa	aaaaaaaa				1768

<210> 441

<211> 1591

<212> DNA

<213> Homo sapiens

<400> 441

ggcacgaggc	ggaacggcgt	ttgcaatggc	tgctactgtg	aacttggaac	ttgatcccat	60
ttttttgaaa	gcactaggtt	tcttgcattc	aaagagtaaa	gattctgctg	aaaagctaaa	120
agcactgctt	gatgaatctt	tggctcgggg	cattgattcc	agttaccgtc	catctcaaaa	180
ggatgtggag	ccacccaaaa	tttcaagcac	aaaaaacatt	tccattaagc	aagagcccaa	240
aatatcatcc	agtcttcctt	ctggtaataa	taatggcaag	gtcctcacia	ctgaaaaggt	300

aaagaaggaa gctgaaaaga gacctgctga taaaatgaaa tcagacatca ctgaaggagt 360
 tgatattcca aagaaaccta gattggagaa accagaaaca cagtcatttc ccattactgt 420
 ccaaagtagc aaggattttac ctatggctga cttttccagt tttgaggaga ccagtgtga 480
 tgattttgcc atggagatgg gattggcctg cgttgtttgt aggcaaatga tgggtggcatc 540
 tggcaatcaa ttagtagaat gtcaggagtg ccataatctc taccaccgag attgtcataa 600
 accccaggtg acagacaagg aagcgaatga ccctcgcctg gtgtggtatt gtgcccgatg 660
 taccagacaa atgaaaagaa tggctcaaaa aactcagaaa ccaccgcaga aaccagcccc 720
 tgcagttggt tctgtaactc cagctgtcaa agatccattg gttaagaaac cagaaactaa 780
 actgaaacaa gagacaactt ttctagcgtt taagagaaca gaagtcaaga catccacagt 840
 tatttcagga aattctttcta gtgccagcgt ttctcgtca gtaactagt gcttaactgg 900
 atgggcagct tttgcagcca aaacttcttc tgctggtcct tcaacagcaa aattgagttc 960
 aacaacacaa aacaatactg ggaaacctgc tacttcgtca gctaaccaga aacctgtggg 1020
 tttgactggt ctggcaacat catccaaagg tggaaatagg tccaaaatag gttccaataa 1080
 cagcactacg cccactgtac ctttaaaacc acctccacct ctaacctgg gtaaaactgg 1140
 ccttagtcgc tcagttagtt gtgacaatgt cagcaaagta ggtcttctta gtccaagtag 1200
 tttagttcca ggaagcagca gccaaactaag tgggaatgga aatagtggaa catcaggacc 1260
 tagtggaagt actaccagca aaactacttc agaatccagc agctctccct cagcatccct 1320
 taaaggccca acttcacaag aatcacagct caatgctatg aagcgattac agatggtcaa 1380
 gaagaaagct gcccaaaaaga aactcaagaa gtaatgtggc caagtaggtt tttgtatcat 1440
 attagcctaa agatgaaagg cttattatta tgatataatc tgtaatacac tgtaatttaa 1500
 taaaagtctt cataatcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1560
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a a 1591

<210> 442
 <211> 3016
 <212> DNA
 <213> Homo sapiens

<400> 442
 gacagattaa tgtccctgta aatctgataa tgataaatat agcataaagg tgttatattc 60
 aaatggattt taatttttct ccaaactaat atttacataa atgtatgtaa actatttgag 120
 ttatgtggag ttccagttag ttttcttttg tgtatgtctc aacaaatggt tagtggtaat 180
 gcttgctcgc tcacattttc ttttcttttg ttttgtaaga ttactttctt ccttctctct 240
 cttccttacc tccattacct tcccttactc ccttctctcc cttctctctt tctctctct 300
 ctattccttc tcttaccctt ccttctcccc tttgtccttc ctccccctgy ctctgatctc 360
 attcctctct cccatgccct cctcactatt ccccttcccc tgcttctttc ctccagcctct 420
 ctttcttttt taatattgcc tccctccctc ccttcccttc cttccttctt tcttttttcc 480
 tcttctcttt ccaccacct ttttattttt tcagactggc ttaatgaaca gtctagtgat 540
 agaaagtggg aaaaataagt tatagtagat ctatatagct atataatcca gtatatccaa 600
 tataatagaa tattatgcaa taattacaaa ctatgctttt tgtgcttctt catatctacc 660
 tcatgccctt catatttttc atcttcatat tctgtcattt accaaatcct atgaaaataa 720
 tctctcaaat tcatcctttc ctatctctct catcttcaca tcttgcattt gctaaatcct 780
 agaatttttc aaattcattc ttttcatttc tcttaccatc ccccmatttc ccttamcag 840
 amctattaaa atagctgccc tgagttgggtc ttgactattc ttctatttag ccmataggct 900
 atggscatat tttaatcgtc ctaaagccca gktctcatca gattacyacc tgcttaaacc 960
 tttctgttac tggctgcccc tttcctacca acttaatata ataccgtagt cttcagtgac 1020
 ttgcagatta tggctctaac ctgctttttt agttctctca agctccattt tacccttaac 1080
 ttccagtgga acttgctttc tgcttccatg tcttttttcc cactatttgc tttgcctgga 1140
 gtacttaact tcttagtctg ccttttagaa cctacctctc tcgaggccca attcagatgc 1200
 cacctttcca ttttctctat tattatctaa gtgtctcttc tcccccttat ctatgttata 1260
 aattccttaa gttcagagac tgtgtcttga aattctctga atttttaaca cagtgccttg 1320
 ctattataaa tatttggttag ttttaattgt gcagtaaaca cttccattta tgaaaatttc 1380
 tgttttcttg tctctagtta aagaagagtg taagagtcct aaagctgagt gttgggtcca 1440
 aaaaatgtcc aataagcagc ctaactctgg aattgagaac ttttttagcat ctttgaatat 1500
 ctccaaagaa aatgaagtac agtcatctca tcatggggag cctccaagtg aagagcattt 1560
 gtcaccacag tcatttgcca tgaagggaac acggatgctt aaagaaattc taaaaattga 1620
 tggctctaac actgtggacc ataagaatga aatcaaacag attgctaatt aaatccctgt 1680
 ttctctaac agaagagatg aatatggatt acctctcag cctaaacaaa ataagaaatt 1740
 agcatcttat atgaacaagc ctcacagtgc taatgagtac cataatgttc agtctatgga 1800
 caatatgtgt tggcctgccc ccagccagat cctcctgtta tccacaccag taactgaact 1860
 ttctcgaatt tgttcccttg ttggaatgcc acaacctgat ttctccttcc ttaggatgcc 1920

acagggctcc ttaggcatga atttcccttt gccttcacaa gtatttgcaa attatccttc 1980
agctgtacca cctggaacca ttccctccagc ctttccccca cctactgcta atataatgcc 2040
ttcgtcgtct catctctttt gctcaatgcc atggggacca tcggtgccag ttccctgggaa 2100
gcccttccat catactttat attctgggac catgcccata gctgggggaa taccaggggg 2160
tgtgcacaat cagttttatac ctctgcaggt tactaaaaaa aggggttgcaa aaaaaaagaa 2220
ctttgagaat aaggaagccc agagttctca agccactcca gttagacta gccagccaga 2280
ttcttccaac attgtcaaag taagtccacg ggagagctca tcagcttctt tgaagtctc 2340
tccgattgct caacctgcat cttcttttca agttgaaact gcctctcaag gccatagtat 2400
atctcaccat aagtcaacac caatctcttc ttcaagaaga aaatcaagaa aactggctgt 2460
taattttggt gttttctaaac cttctgagta aatttggtc ttagaattaa gtttaatttct 2520
tctctttcca tctacctttt tataaatata tatctatgtc tcataaaaaat tagaatgtac 2580
tattttaaaa taatatgtgt aaattgaaat ttttttcatt ttttaagttat caggcacttt 2640
tcattgctgt taaaagactg tgtatcaaat tgtgcacttt aagtatgtgc agtttggtgt 2700
atgtcaatta tacctcaata aatctgtaat aaaaaactaa attaaacctt gcattaaaaat 2760
aatatcacag tatcagtgga ctaaacatta aaatgtacca ctctaatacat tggcctcatg 2820
attgaagcat cctgaactat gaattagaca tcagttagca ataataagca ttttttacac 2880
tatcattgag grataattac atggagcatg aaatttgggc ctccagtgat aacttactga 2940
atgtggattt tatttctctt tttaatgatg tagaaaatgc aggagaatgg ctcttatttt 3000
atgtgtggtt tttaac 3016

<210> 443

<211> 623

<212> DNA

<213> Homo sapiens

<400> 443

tcgaccacg cgtccgtttt tttttttttt ttttttaggc ccatttragt agttaggaac 60
tgcccagggt ttttttggtt ttttaagcatt gattttaaag atgcacggaa agttatctta 120
cagcaaactg tagtttgctt ccaagacacc attgtctccc tttaatcttc tcttttgat 180
acatttgtaa cccatgggtg tctttgttcc ttttcataag ctaataccac tgtagggtat 240
ttgttttgaa cgcataattga cagcacgctt tacttagtag ccggttccca tttgccatac 300
aatgtagggt ctgcttaatg taacttcttt tttgcttaag catttgcatg actattagtg 360
cttcaaagtc aattttttaa aatgcacaag ttataaatac agaagaaaga gcaaccaccc 420
aaacctaaca aggacccccg aacactttca tactaagact gtaagtagat cttagttctg 480
cgtttattgt aagttgataa aaacatctgg aagaaaatga ctaaaactgt ttgcatcttt 540
gtatgtattt attacttgat gtaataaagc ttattttcat taacaatttg tattaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaa 623

<210> 444

<211> 1092

<212> DNA

<213> Homo sapiens

<400> 444

ggcacgaggg cgttttcccc accattgtct ctttagggcc tgggtgtctgc ccccgccctg 60
ggtgcaccca ttactagca cggggccacc tgggtgggtg ggggcagaaa caaggcatgg 120
aaaaacatga cacaaatcac gtctggtacc atgctgaacc tgtccatcca aaatgcctca 180
ggcttctact cacattaaag ctccccctcc tcccagccca gagcctggca attaaagtga 240
acatcacgta cgaagaaaca tgcacgtgcg ggcagctgat aaatcaggac cggctctgcc 300
aattaactgg tcttacatct tctgctgaga gttagaata tgtccgtgtc agccaagccc 360
cagcccaggc cacagcatgt ggctcgggtt cagcagaagg aggggatact gtccttggg 420
gacctaaagc aatacaagaa gccatcttaa cttgctaatt attactaagt gtcctaaagc 480
taagaggcag aaagagcaga ccagaggaga ggggaagaga gagggaggag gaggtaggat 540
ggcacccgaa tctggaaccc tttagttagt aaaatcagtc aggtacactt ggctcttgca 600
gaccctttgt gtgtaaataa atctggatgt gggcaggcgc caagtatgat ctgaaacagg 660
cccaatccca ccctgcgagg gaggtgtatg caccctgatc cctggccgca gagcgcaggg 720
gctggcgggg agagtggcac tgcgtgcgcc gtacggcggc tgcaggagga tgccttaca 780
cagctctgaa ctttgcgtct tttaaaatac caagggcgag tcgtttacac gtgaggctga 840
ctgcccagaa tgggagattc accttgacta tatggagggtg attctgctag ttttccgagg 900
caaggggaac ccaaaatgac agtttaaagc acaaacatgg ccatttgtca cagcttcggg 960
aagaaatggg gaaaggtgct gagagaaaat ccgtttctta caggagacaa acaccgtttg 1020

gggatgccaa gcatggtttc ccaggggctt cccctttcta gaagagttca ccttgtacct 1080
 aaaaaaaaaa aa 1092

<210> 445
 <211> 2101
 <212> DNA
 <213> Homo sapiens

<400> 445
 agccggcctc gcacttccgg tggggagatt ccggcctgga gctcccaggg ccgagcagac 60
 cttgggacct gtgagcgctg catccaatta accatgggaa gggtcagcac cagccaccag 120
 ccccttaggt gaggactctg cctggggctc tgctgatggg tccgaatcat ggagctgcag 180
 agagctcctc cagcctggag acgttcttgg tgaaagctgt ggtctaactc caccggctct 240
 tcctgcacat tgtattcaag aggggtgcct gccccgctg actcaggagc tccggtgctg 300
 cagccgccac gaatggggag gtgggcccct gatgtggcct ttttgtggaa ggcggtgttg 360
 accctggggc tgggtgcttct ctactactgc ttctccatcg gcatcacctt ctacaacaag 420
 tggctgacaa agagcttcca ttccccctc ttcatgacga tgctgcacct ggccgtgatc 480
 ttctcttctc ccgcctgtc cagggcgctg gttcagtgtc ccagccacag ggcccgtgtg 540
 gtgctgagct gggcgacta cctcagaaga gtggctccca cagctctggc gacggcgctt 600
 gacgtgggct tgtccaactg gagcttctctg tatgtcaccg tctcgctgta cacaatgacc 660
 aaatcctcag ctgtctctct catcttgatc ttctctctga tcttcaagct ggaggagctg 720
 cgcgcgccac tggctctggg ggctctctc atcgccgggg gtctcttcat gttcacctac 780
 aagtccacac agttcaacgt ggagggcttc gcttgggtgtc gggggcctcg ttcacggtg 840
 gcattcgctg gaccctcacc cagatgtctc tgcagaaggc tgaactcggc ctccagaatc 900
 ccatcgacac catgttccac ctgcagccac tcatgttctt ggggtctctc cctctctttg 960
 ctgtatttga aggtctccat ttgtccacat ctgagaaaat cttccgtttc caggacacag 1020
 ggctgtctct cggggtactt gggagcctct tcttggcgg gattctcgcc tttggtttgg 1080
 gcttctctga gtctctctg gtctccagaa cctccagcct cactctctcc attgccggca 1140
 tttttaagga agtctgcact ttgctgttgg cagctcatct gctgggcat cagatcagcc 1200
 tcttgaactg gctgggcttc gcctctgcct ctcggaata tccctccacg ttgccctcaa 1260
 agcctgcat tccagargtg atgggtggcc caaggccttg aaggggctgg gctccagccc 1320
 cgacctggag ctgctgtctc ggagcagcca gcgggaggaa ggtgacaatg aggaggagga 1380
 gtacttttgg gcccgagggc agcagtgacc agccagggca aatggcttag aagcaggcca 1440
 ctccccagcc tgctgccagc actcactgtg ctcaagccgc cagggtctat catggtagct 1500
 gggagctgtg gacgggagtc accaggtggg ggggccaagc cagggactca tgacttttgc 1560
 cctctccttc agagcctggg cacacaaggg gcgagcacca ggccagcctg ggactggcca 1620
 gagctggggc caagctgcgc tggaatcgca gcaggagagg ggagtgggt ggttcttccc 1680
 accacttccc aggtctctgac agccgagact catttccaag gcacagcagc tttctaaagg 1740
 gactgagttt ggactgggtt ttggacctcc aggggctgga gcttcatcac ctgggcagtg 1800
 tcttttctca gagagcaggt ttctttatag tttggaaata aatggttcac ggtccactgg 1860
 ccgccttctg ttgctggaga cgtgggggca gggaggggac agtgtgggccc tggcctctcc 1920
 tttcttttcc ctgcctggag ccttcttcaa atgtctgtgtc ttaagccagg cctccttcat 1980
 tttctcgtc ctgttagaac accagtcccc tycccagtgg ggccccactg cacctgtctg 2040
 caggaaataa atgaatgttt actgagwaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2100
 a 2101

<210> 446
 <211> 1444
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (444)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (739)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (758)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (949)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (959)
 <223> n equals a,t,g, or c

<400> 446

ggcacgaggt	ggcttgggagc	cagcccaccc	tcttatgaag	taccagtttc	ctcatcttca	60
agacagaaac	agtaatagga	cttagcccat	gaggttgctg	ttgattcggg	gaaatgatat	120
tcataaaggt	ctgagcacag	tggctgggac	ataagcactc	aaacatcagc	tgctatcact	180
atcgtgtcct	tccagtacct	tttgaaacct	tgtgctgatg	aattcagaaa	gcagccctaa	240
ggctcccttt	ccctgtgctg	ctctagccag	tcccctccca	ggcaggcaag	gaagcttctc	300
caccaatgag	cctctttatg	cactcatggt	tccatgtcca	ggcaggcttg	ggcagctgga	360
gtacagagaa	gcgtarggtg	ccttcacata	cctgggatgc	aaaccctggg	ggccagcatc	420
tcggggccgca	gtggagagct	gcangggccg	accctgtgac	tgykcacagy	gtwkatgggg	480
ttccgcagga	tggagctcac	agtgggtgctg	gggggtcaaac	tccgggggaac	agtgcctaga	540
aatgggcttg	gtgagaaaag	acgccccaaa	ggaccagcc	agcccaggac	twacacaagc	600
ctttcccttg	tatcccagga	cscascgca	gtcttttg	aaaaggactt	gggagatgag	660
ttttaaccac	caattcacaa	tgtggctgtg	gctcctggcc	tgtctccatt	tgtaaaaagg	720
ggggaagtct	ctttcatgnt	tcctatttcc	caggttgnta	tggggagaaa	gcatgttgac	780
aagctaagac	atgtcatgga	tataagacaa	accatcccag	acaggacagc	atttcccart	840
tctctggacc	tcagggtctga	aaacacatgg	cagctctctg	aaatgctgcc	tcccctctcc	900
ctggagayta	ggcatcccga	ktttacaccg	accttcagcc	cccagcccnt	ggctggctna	960
ctcaccaca	gacggcctgc	taggggtatag	cgggggggtg	ctgtgccggc	tggaatgccc	1020
aggcgagtaa	ggtgcccact	cctggagctc	cggggagagt	tctccactgg	ccgggacaca	1080
cttctgttcc	tgcagatgca	agggcaagag	tgtctgctag	aaagagtgga	gtgtggccag	1140
gcgcagtggc	tcacacctat	aatcccagca	ctctgggagg	ccgaggcggg	cagatcacct	1200
aaggtcagga	gttcaagacc	accctggcca	acatggcgaa	atcccgtctc	tacaaaaaat	1260
acaaaaatta	gctgggcatg	gtagtgggtg	cctgtaatcc	cagctacttg	ggaggctgag	1320
gcaggagaat	cgcttgaact	cgggaggcag	aagttgcagt	gagccaagac	tgcaccactg	1380
tactccagcc	tgggtgacag	agtgagactc	catcttaggg	aaaaaaaaaa	aaaaaaaaact	1440
cgag						1444

<210> 447
 <211> 1374
 <212> DNA
 <213> Homo sapiens

<400> 447

aggaattcgg	cacgagtgtg	gtcgatttgc	ttcaggaatt	aacagatata	gacaccctcc	60
atgagagtga	agagggagca	gaagtgtctca	tcgatgtctt	ggtggatggg	caggtggtag	120
cactgctggg	acagaatctg	gagcgcctgg	atgagtctgt	gaaagaggag	gcagatggcg	180
tccacaacac	tctggctatt	gtggaaaaca	tggctgagtt	ccggcctgag	atgtgtacag	240
aggggtgcca	gcagggtctt	ctacagtggc	tgttgaagag	gctgaaggca	aagatgcctt	300
ttgatgccaa	caaactgtat	tgcagtgaag	tgctggccat	attgctccag	gacaatgatg	360
aaaacaggga	attgcttggg	gagctggatg	gaatcgatgt	gcttcttcag	cagttatccg	420
tgtttaaaag	acacaatccc	agcacggctg	aggagcagga	gatgatggag	aatctgtttg	480
attccctctg	ctcctgtcta	atgcttagtt	ccaatcgtga	gcgcttccctg	aagggcgagg	540
gtcttcagct	gatgaatctc	atgctcaggg	aaaagaagat	ctcccggagc	agtgccctga	600
aagtgtctga	ccatgccatg	attggccccg	aaggcacaga	caactgccat	aagtttgttg	660
acattcttgg	cttacgaacc	atctttcccc	tctttatgaa	atctcccagg	aagatcaaga	720
aagtgggaac	cactgagaag	gaacatgaag	agcatgtctg	ttcgatcctg	gcttccctcc	780

<221> SITE
 <222> (1241)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1246)
 <223> n equals a,t,g, or c

<400> 449

ggcacgaggg	gaagatgggg	caaggagggg	tgggaaaata	ggtaattcat	ggctgcttct	60
ctaagatgtg	cctgcctagc	cccagtaaac	ctacctccct	ccatccctgc	caggccatgg	120
tggcgtgtta	cccaggcaac	gggctcgggt	acgtaaggca	cgttgacaat	ccccacggcg	180
atgggcgctg	catcacctgt	atctattacc	tgaatcagaa	ctgggacgtt	aaggtgcatg	240
gcggcctgct	gcagatcttc	cctgagggcc	ggcccgtggt	agccaacatc	gagccactct	300
ttgaccgggt	gctcattttc	tgggtctgacc	ggcggaaccc	ccacgaggtg	aagccagcct	360
atgccaccag	gtacgccatc	actgtctggt	atthttgatgc	caaggagcgg	gcagcagcca	420
aagacaagta	tcagctagca	tcaggacaga	aaggtgtcca	agtacctgta	tcacagccgc	480
ctacgcccac	ctagtggcca	gtcccagagc	cgcatggcag	acagcttaaa	tgacttcagg	540
agagccctgg	gcctgtgctg	gctgtctcct	ccctgccacc	gctgctgctt	ctgactttgc	600
ctctgtcctg	cctgggtgtg	agggctctgt	ctggtgctga	ggaccaagga	ggagaagaga	660
cccttgctgc	cccatcatgg	gggctggggg	tgtcacctgg	acagggggca	gccgtggagg	720
ccaccgttac	caactgaagc	tgggggacctg	ggctcctacc	tgtctggtca	tgacccatt	780
aggtatggag	agctgggagg	aggcattgtc	acttcccacc	aggatgcagg	acttgggggt	840
gaggtgagtc	atggcctctt	gctggcaatg	gggtgggagg	agtaccccca	agtctcttca	900
ctcctccagc	ctggaatgtg	aagtgactcc	ccaacccctt	tggccatggc	aggcaccttt	960
tggactgggc	tgccactgct	tgggcagagt	aaaaggtgcc	aggaggagca	tgggtgtgga	1020
agtctgttca	gccaaagaaat	aaaagttttac	ctcagagctg	camaaaaaaa	aaaaaaaaaa	1080
aaaaaaaaaa	aaaaaaaaaa	aaggggcgcc	gctcttagag	gatccctcga	gggggcccac	1140
gctttacgcg	tggcatgcga	cgttcatagc	tcttcttccc	ttaaagttga	attcgttatt	1200
tanaaagctt	aggcattggg	cgtctctttt	ttanaacgt	ncgtgnactg	ggggaaattt	1260

<210> 450
 <211> 1915
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (490)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1899)
 <223> n equals a,t,g, or c

<400> 450

ggcgaagagg	ggcgsaackc	rttgcgtttt	gagtctcggg	acccctgttg	gagagactat	60
ggcgtctaac	aagaatcact	cggaggggcg	cggagtgatc	gtcaataaca	ccgagagcat	120
cctaattgtc	tatgatcacg	tggaaactcac	attcaatgac	atgaagaacg	tgccagaagc	180
cttcaaaggg	accaagaaag	gcactgtcta	ccttaccctt	taccgggtca	tctttctgtc	240
caaggggcaag	gatgccatgc	agtccttcat	gatgccattt	tatctcatga	aagactgtga	300
gatcaagcag	cccgtatttg	gtgcaaacta	catcaaggga	acagtgaagg	cgggaagcggg	360
aggtggcttg	gaaggetctg	cttcctacaa	gttgactttc	acggcagggg	gcgccattga	420
gttcggacag	cggatgctcc	aggtggcatc	tcaagcctcc	agaggtgaag	tccccagtgg	480
agcctatggn	tactcttaca	tgcccagcgg	gscytatgtc	tatccccgcg	cagtcgccaa	540
tggaaatgtac	ccctgccctc	ctggctaccc	ctatccaccg	ccccacctg	agttctatcc	600
aggaccccc	atgatggacg	gggcccattg	atacgtgcag	ccccaccac	cgccctaccc	660
tggggcccatg	gaacctccgg	tcagcggccc	cgatgtcccc	tccactcctg	cagccgaagc	720
caaggccgca	gaagcagccg	ccagcgccta	ttacaaccca	ggcaatcctc	acaacgtcta	780

095008-091201

catgcccacg	agccagccgc	cgccacctcc	ctactaccca	ccggaagata	agaagaccca	840
gtaggccttc	ctgcctccct	gcctccacc	ctcatctctc	taccctaccc	ctcccatcgg	900
ggctgtgctg	gggcttgggg	aggggagggg	gcgccttggt	ctccctccag	gtctgatcat	960
aaacaattac	caggaactag	cattgtggga	cattagggcc	cccggcctcg	ggagaggtgc	1020
cgcccagctt	cccattgccag	cccggagccc	acagtgcctg	ccagcgtacc	tccctcaccg	1080
tctggggctc	ttctgggagc	acggagcatc	ccctgttcct	gtttcactct	cagcttctcc	1140
cctcgaaggg	actctctggc	cacctcctcc	accgcagtcc	agctccctca	gtctggcacc	1200
cactgctaca	ctcagcctca	tgagccactt	cagaccagcc	aggtgtcttc	ccgggcccctg	1260
ccagaccctg	ctcacattcc	ctctgctggt	ctgtgctggt	ctcagaaggc	caccgcgccc	1320
gcattccact	cagccagggg	ccagctgcag	cccccgccac	ccttccttcc	cttccctgtc	1380
ctgggtcatg	ttgttgccac	cctgtgtgac	ttttgaagct	gtaaaatgag	cttccagggc	1440
ttgggtggcg	tcggggcagg	gccgccgagg	ctgggaggaa	gcccttctgc	cttttgctgg	1500
tgtttctgga	atttgctttc	cctcacctct	cacttccttc	tagaaggagc	ttcctgactg	1560
gaaccagaga	atgcatgtct	gtccacttgg	tggctgctgg	gtggggcccg	gaacaagggc	1620
ccctgaccct	gtgtgctggc	cgggacctgc	caccagcccc	ccagcctgct	tcttccccctt	1680
aagctttgtg	cccctggatg	cgctaacatt	cactcttggt	tgtccctgga	ctggccatga	1740
agtgaggaga	tggttattta	aagagaattc	cctattttatt	tgacaaaaaa	tccagttaat	1800
atattaatgt	gaaataaacc	ctgtttgcac	ctcgatttgt	ttgtgaaaa	tgtgaaatag	1860
taaaaatgaa	ataactggaa	aaaaaaaaaa	aaaaaaaaacnc	aagggggggc	ccggt	1915

<210> 451

<211> 1070

<212> DNA

<213> Homo sapiens

<400> 451

ggcacgagca	gtgacgaggg	aaacctctcg	ctgaggggtg	gggcaaagtc	acccctggaa	60
atcgaagggg	ccgctggtgg	tctcttgagg	tccaccagcc	tcaaatgcat	ctcttcagac	120
ggtgttgggg	gcacaaccct	actccccgaa	aagtcgaaaa	cccgattcag	ttcctgcgag	180
tcctcttag	aatccagacc	gagcatgggg	agaaaactga	gtctctccgac	cacacccagg	240
gacatgctgt	tgctgcccac	actgcgtcct	cggaggcggt	gtctggagtc	ctctgtggac	300
gatgcgggct	gtccagacct	tgaaaaggag	ccgcttggtt	tccagaaccg	ccagtttgcc	360
cacctgatgg	aggaacctct	aggcagtgc	ccattcagct	ggaaaactccc	aagcctcgac	420
tacgaacgca	agaccaaaagt	ggacttcgat	gacttcctcc	cagctatccg	gaagccccag	480
acacctacct	ccttggtctg	atcagccaaa	ggtgggcaag	acggttcaca	gcgttcaagc	540
atccactttg	aaacggaaga	rgctaaccgt	tcctttctct	cggggatcaa	gaccattttg	600
aagaagagcc	cggagcccaa	ggaggatccc	gctcacctgt	ctgactcgtc	ctcatcctcc	660
ggctccatcg	tgctccttcaa	aagtgtctgac	agcatcaaaa	gtcgaccagg	aatcccacga	720
cttgcggggtg	acggtggcga	gcgaacgtcc	cccagcgga	gagagccagg	gacggggagg	780
aaagacgagc	atggtgcgag	cataatgaag	aaatacctcc	agaagtagga	accagttcag	840
cctccttgaa	gctgcccttg	aagacttccc	gactctacaa	taacttggag	acagagagac	900
tggccaggcc	tccccggtgg	ccakagccag	ccagcatggc	caccctcaag	aggcgagatg	960
agccacacaga	ggcatatcct	gcggggatgc	tgggtctcca	gtgtggttgg	cctgaacaaa	1020
ataaagtgtt	gactcctggg	aaaaaaaaaa	aaaaaaaaaaaa	aaaactcgta		1070

<210> 452

<211> 1160

<212> DNA

<213> Homo sapiens

<400> 452

aattcggcac	gaggattttt	gtcttcagcc	gtgcaactat	gttgggggtca	tcttattcct	60
ccttttcggc	ggtggacaca	gtcaaaaaca	ttttaataca	atggaagtgc	atcccctggc	120
agccctgcgg	cagtcacagc	ctccttattg	gcaaggctga	agtcaaagcc	ttgggctgcc	180
cagcctgaat	gacactggct	tcctgggatg	gttgttgctg	tgctcaggac	atttctgggt	240
ctctgccact	gctactggtg	ctcttggtgg	agaaggccac	aggggtgttc	tggggagggtg	300
gtgagccaga	ggtttctggg	tctgcaccac	tgtgctgtgt	gctctgggta	taggggtagg	360
ccacagggtc	atgctgggag	gcttggttag	cctgggatgt	ttctgggtct	ccaccactgc	420
tgctgggtct	ctgggtggag	aagaaggcca	caggctgata	ctggaaggct	tgttgagcca	480
gggacgtttc	tgggactcca	ccactgctac	aggtgctctg	ggtggagggg	aagccatggg	540
gtcatgctgg	gggccttggt	gagccaggga	ggtttctggg	tctgcactac	tgttgctggt	600

gctctgcgtg	gagggggaag	acacaggtca	tgctggaagc	ttgttgagcc	aaggacattt	660
ctgggtgtat	ccagttgtgc	aggtctcctc	ctcttgcata	ctctgttact	aaataaataa	720
caggggatg	ctcaggggct	tggtgagcca	gggatgtttc	tgggtcttca	ccactgctgc	780
tggtgctctg	ggtggagggg	gagggccacag	ggtctttatg	tatttaagca	taaaggcaag	840
gcttggcgcg	gtggctcatg	cctgtcatcc	tagcactttg	ggaggctgag	gcgggtggat	900
tgcttgatcc	caggagttca	agaccagcct	gggtaacatg	gcaaaacctc	atctctatag	960
aaaatacaga	aattagccag	ctgcagtgca	tgctgtgggt	cccacttact	cggagggctg	1020
aggtgggagg	atcgccctgaa	cctggaaggt	caaggctgca	gtgagccaag	attgtgtcac	1080
tgtactctag	cctgggttag	agagccagac	actatctcaa	aataaaataa	aaaaaaaaaa	1140
aaaaaaaaaa	aaaaaaaaaa					1160

<210> 453

<211> 1159

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (584)

<223> n equals a,t,g, or c

<400> 453

ggtgctggcc	gctctagaac	tagtggatcc	cccgggctgc	aggaattcgg	cacgagctga	60
agccggggac	ccggggggct	gaggaatgct	gaggcaaagt	ctgagcggct	gcccattgcc	120
tgccctcccg	tcttgcttgc	tgcccttatg	tcagtgcctt	cctgggttag	gagaccggga	180
ccggagacaa	gccaggccct	gcagacccca	gagcggctgg	gaacagtgtc	tggaatgggg	240
ccttttgcac	tcgcccggcc	aagcctctcc	aaaatggatt	ccactgggtg	gggctgggac	300
ctggagcaag	gtgccgcgcg	acgccccccac	agggttccca	tgtttcaggc	tcctgcccctg	360
gcctttcttt	ctggactgca	gctcagcttt	gttgctgtgt	caatctactg	atttgtttct	420
ctggaatttg	gggtccaagg	ccctgactat	gaccaggatg	cccagtcctc	ttgctctaac	480
ccggctacag	aagtgaacca	caggscacac	agaaccacag	acagggacct	ttcamcccca	540
cggttagccc	aggggctcta	gagctcacta	gccaataga	gggnctagac	aagattcttt	600
tccaaatatc	aaaactcctg	gcagttcttc	agggacaggc	tctgagcagc	agtgaatcag	660
atgggggaat	ttggggggct	cacaaaggga	caggtaaaaa	caattcgcct	gggggtcaga	720
ggaggcaatt	ctcagctgag	cccaggcctg	agacccttgg	tgtcttaact	ccaccactca	780
aggcttttcg	tgatctgact	tctctcttcc	tcccatcttc	tactgctcc	ctgaacaagc	840
aaaacacatt	cctgtctcca	agctttgccc	tgtgttctcc	agcacctccc	ctgcttctgt	900
ctgcctatca	aacacccccc	ttttaaaagtc	cccggtcaaa	aaatctccta	cccacgtggg	960
ttcttcattc	tcttcaccca	acctctgtct	tgccactttc	aggcagggct	gaagtcttcc	1020
ttttcacaaa	acaattatta	aaccatctta	agtctactga	acgttgcccc	tgctctagt	1080
tctagcacca	gaccagtagg	tgcttaataa	atgttaatgg	attcaattta	aaaaaaaaaa	1140
aaaaaaactc	gtaggggggg					1159

<210> 454

<211> 2377

<212> DNA

<213> Homo sapiens

<400> 454

agctgtcgcg	rgcgggcgcc	ggccttgctc	aacgcccagc	agtccccacc	gtcgctgcgg	60
ccgccaccgc	cctcgggcgc	tgccgaggcc	tcttgacgcc	atcatgtccg	ccagcgccgt	120
ctacgtgctg	gacctgaagg	gcaaggtgct	catctgccgg	aactaccgtg	gcgacgtgga	180
catgtcagag	gtggagcact	tcatgcccac	cctgatggag	aaggaggagg	aggggatgct	240
gtcgcccatc	ctggcccacg	gggggggtccg	tttcatgtgg	atcaaacaca	acaacctgta	300
tctggttgcc	acatccaaga	agaacgcgtg	cgtgtcgctg	gtcttttctt	tcctctataa	360
ggtggtgcag	gtgttttccg	agtacttcaa	ggagctggag	gaggagagca	tccgggacaa	420
ctttgttatc	atctacgagc	tgctggacga	gctcatggac	ttcggctacc	cccagaccac	480
cgacagcaag	atcctgcagg	agtacatcac	tcagggaaggc	cacaagctgg	aaacaggggc	540
ccgcgggcca	ccagccaccg	tcaccaacgc	ggtgtcctgg	cgggtccgaag	gcatcaagta	600
tcggaagaat	gaggtgttct	tggacgtcat	cgagtctgtc	aacctcttgg	tcagcgccaa	660
cggcaatgtc	ctgcgcagag	atcgtgggct	ccatcaagat	gcgagtyttc	ctctcgggca	720

0950550-230160

tgcccgagct	gcgcctgggc	ctcaacgaca	aggtcctctt	tgacaacacg	ggcccgggca	780
aaagcaaate	cgtggagctg	gaggatgtga	agttccacca	gtgtgtgcgg	ctatcacgct	840
tcgagaatga	ccgcaccatc	tccttcatcc	caccgcagcg	cgagttcgag	ctcatgtcct	900
accgtctcaa	cacccacgtc	aagcctttga	tatggatcga	gtcgggtgatc	gagaagcact	960
cccacagccg	catcgagtac	atgatcaagg	ccaaaagcca	gttcaagcgg	cggtcaacag	1020
ccaacaacgt	ggagatccac	attcccgtgc	ccaatgatgc	cgactcacc	aagttcaaga	1080
cgacgggtggg	gagcggttaag	tgggtccccg	agaacagcga	gatygtgtgg	tccatcaagt	1140
ccttccccggg	cggcaaggag	tacctgatgc	gggcccactt	cggcctgcct	agtgtggagg	1200
ccgaagacaa	ggagggcaag	cccccgatca	gtgtcaaagtt	cgagatccct	tacttacta	1260
cctccggcat	ccaggtgcgc	tacctgaaga	tcattgagaa	gagtgggtac	caggccctgc	1320
cctgggtgcg	ttatatcacg	cagaatggag	attaccagct	ccggaccag	tgaggggctg	1380
tcgcagccaa	caccccgccc	tcggggctcc	tggtggcagc	accaggggac	acacctgcca	1440
aaccaccag	atggaggggc	cctccctggg	ctctggccac	cctcccagcc	tctgccagg	1500
gacccctgcc	ttccccaggc	catctgctct	gccgtcgaca	ctcgtctcag	aagccccctt	1560
cccagaagag	gctgggtcttc	aagaagtctc	gtttctttgc	ccctgaagtc	agtttcaggg	1620
gaaggatgtg	aaatttttcc	gtgtagaggt	tacagccttt	tatgctgttg	agctcccagg	1680
taccaaaaag	cttggccaac	gcttgccagc	cagccagctg	caggtggcat	ctgccacgaa	1740
ggaagcgcca	gcytcgccag	gccagcaggg	gcgtcgtttt	gttgccattt	tggtgaacgt	1800
tatgggttta	tgggtgttcc	tggaaacttg	ctttgtgcat	tcgttgctgt	ttgtgttacc	1860
ctcactgtcc	ccatgtccca	cccacgtcct	acggcactca	ggaagcactt	ggtgaggacg	1920
agccctcacc	cttcttgtct	tccttcccag	cagcgcccgc	agcggggccat	ttacacgtcg	1980
aggctggcac	ctggcgcgct	cggggggccac	tgtagcgtct	gcctgctccc	tggactcgca	2040
ggcctgcctg	tggcgccctc	ccagggccag	cctgggtcac	gagatgctgt	cactcagcca	2100
gatcagtatt	gacccaccag	gggaggtggg	gtttggtgag	agacgccagc	ctcagacttt	2160
ttcccactga	gggtccagag	agcggggcca	cgtgtcaccc	acgtctgcgc	ttgggtcacc	2220
gtcctcccca	ccctgtgtgt	gtttatgtca	tagttacatt	aaattccatt	cattgaataa	2280
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2340
aaagaaaaaa	aataaaaaaa	aaaaaaaaaa	aactcga			2377

<210> 455

<211> 1968

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (291)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (303)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (308)

<223> n equals a,t,g, or c

<400> 455

gccgtgttaa	tgacgtttna	aggcgagtgc	ggaaagtggc	ctggggagcc	tcggggagcg	60
gacgcccctc	gccctggtgc	tgacctgcct	ccctgcccct	tstgcctcct	gtmagcagag	120
gcctcggttc	cgcaactgcc	actcctcctc	ggggtgttgc	acaagtttcg	aggtcaccgg	180
cgaccccccc	tagcagcgcg	cctggctctg	gccccgcga	aggaggacgg	agtttgtgtg	240
ttgcatactt	tctaaggcgg	cggctgcagc	agcggctcca	tccagcccgt	nagctcctcc	300
tgnaaggnat	ggctgggtac	ctgagtgaat	cggactttgt	gatgggtggag	gaggggtmag	360

095006-091201

tacccgagac	ctgctgaagg	aactcactct	gggggcctca	caggccacca	cggacgaggt	420
agctgccttc	ttcgtggctg	acctgggtgc	catagtggag	aagcactttt	gctttctgaa	480
gtgcctgcca	cgagtccggc	ccttttatgc	tgtcaagtgc	aacagcagcc	caggtgtgct	540
gaaggttctg	gcccagctgg	ggctgggctt	tagctgtgcc	aacaaggcag	agatggagtt	600
ggtccagcat	attggaatcc	ctgccagtaa	gatcatctgc	gccaacccct	gtaagcaaat	660
tgcacagatc	aaatatgctg	ccaagcatgg	gatccagctg	ctgagctttg	acaatgagat	720
ggagctggca	aaggtggtaa	agagccaccc	cagtgccaa	atggttctgt	gcattgctac	780
cgatgactcc	cactccctga	gctgcctgag	cctaaagttt	ggagtgtcac	tgaaatcctg	840
cagacacctg	cttgaaaatg	cgaagaagca	ccatgtggag	gtggtgggtg	tgagttttca	900
cattggcagt	ggctgtcctg	accctcaggc	ctatgtctag	tccatcgcag	acgcccggct	960
cgtgtttgaa	atgggacccg	agctgggtca	caagatgcac	gttctggacc	ttggtgggtg	1020
cttccctggc	acagaagggg	ccaaagttag	atttgaagag	attgcttccg	tgatcaactc	1080
agccttggc	ctgtacttcc	cagagggtg	tggcgtggac	atctttgctg	agctggggcg	1140
ctactacgtg	acctcggcct	tcactgtggc	agtcagcatc	attgccaaga	aggaggttct	1200
gctagaccag	cctggcaggg	aggaggaaaa	tggttccacc	tccaagacca	tcgtgtacca	1260
ccttgatgag	ggcgtgtatg	ggatcttcaa	ctcagtcctg	tttgacaaca	tctgccctac	1320
ccccatcctg	cagaagaaac	catycacgga	gcagcccctg	tacagcagca	gcctgtgggg	1380
cccggcgggt	gatggctgtg	attgcgtggc	tgagggcctg	tggtgtccgc	aactacacgt	1440
aggggactgg	ctggtctttg	acaacatggg	cgcctacact	gtgggcatgg	gttccccctt	1500
ttgggggacc	caggcctgcc	acatcaccta	tgccatgtcc	cgggtggcct	gggaagcgct	1560
gcgaaggcag	ctgatggctg	cagaacagga	ggatgacgtg	gaggggtgtg	gcaagcctct	1620
gtcctgcggc	tgggagatca	cagacaccc	gtgcgtgggc	cctgtcttca	ccccagcgag	1680
catcatgtga	gtgggcctcg	ttcccccccg	agaatcccag	cggggcctca	gagatgcata	1740
tgggagaggt	ggggaagatg	gcaggcaagg	gtacccttgg	ccaggactct	ggtgcccacc	1800
ctgccacccc	cgcgtccac	ctgcagtgtt	tctgccctgt	aaataggacc	agtcttacac	1860
tcgctgtagt	tcaagtatgc	aacataaatc	ctgttccttc	aaaaaaaaaa	aaaaaaaaaa	1920
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aactcgag		1968

<210> 456

<211> 1100

<212> DNA

<213> Homo sapiens

<400> 456

agagcacgcc	ctctgagccg	cwcgggtggac	accaggcact	ctagtaggcc	tggcctaccc	60
agaaacagca	ggagagagaa	gaaacaggcc	agctgtgaga	agccaaggac	accgagtcag	120
tcatggcacc	taaggcggca	aagggggcca	agccagagcc	agcaccagct	ccacctccac	180
ccggggccaa	acccgaggaa	gacaagaagg	acggtaagga	gccatcggac	aaacctcaaa	240
aggcggtgca	ggaccataag	gagccatcgg	acaaacctca	aaaggcgggtg	cagcccaagc	300
acgaagtggg	cacgaggagg	gggtgtcgcc	gctaccgggtg	ggaattaaaa	gacagcaata	360
aagagtctctg	gctcttgggg	cacgctgaga	tcaagattcg	gagtttgggc	tgctaatag	420
ctgcaatgat	actgttgtcc	tcactcaccg	tgcaccccat	cttgaggctt	atcatcacca	480
tggagatata	cttcttcagc	ttcttcacat	tactgtacag	ctttgccatt	catagataca	540
tacccttcat	cctgtggccc	atctctgacc	tcttcaacga	cctgattgct	tgtgcgttcc	600
ttgtgggagc	cgtggtcttt	gctgtgagaa	gtcggcgatc	catgaatctc	cactacttac	660
ttgctgtgat	ccttattgggt	gcggctggag	tttttgcctt	tatcgatgtg	tgtcttcaaa	720
gaaaccactt	cagaggcaag	aaggccaaaa	agcatatgct	ggttcctcct	ccaggaaagg	780
aaaaaggacc	ccagcagggc	aagggaccag	aacccgccaa	gccaccagaa	cctggcaagc	840
caccagggcc	agcaaagggg	aagaaatgac	ttggaggagg	ctcctggtgt	ctgaaacggc	900
agtgtatttt	acagcaatat	gtttccactc	tcttccttgt	cttctttctg	gaatggtttt	960
cttttccatt	ttcattacca	cctttgcttg	gaaaagaatg	gattaatgga	ttctaaaagc	1020
cwaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1080
aaaaaaaaaa	aaaactcgag					1100

<210> 457

<211> 1081

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1076)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1078)
 <223> n equals a,t,g, or c

<400> 457

gctgagcacg	ccctctgagc	cgctcgggtg	acaccaggca	ctctagtagg	cctggcctac	60
ccagaaacag	caggagagag	aagaaacagg	ccagctgtga	gaagccaagg	acaccgagtc	120
agtcatggca	cctaaggcgg	caaagggggc	caagccagag	ccagcaccag	ctccacctcc	180
acccggggcc	aaacccgagg	aagacaagaa	ggacggtaag	gagccatcgg	acaaacctca	240
aaaggcgggtg	caggaccata	aggagccatc	ggacaaacct	caaaaggcgg	tgcagcccaa	300
gcacgaagtg	ggcacgagga	gggggtgtcg	ccgctaccgg	tgggaattaa	aagacagcaa	360
taaagagttc	tggctcttgg	ggcacgctga	gatcaagatt	cggagtttgg	gctgcctaata	420
agctgcaatg	atactgttgt	cctcactcac	cgtgcacccc	atcttgaggc	ttatcatcac	480
catggagata	tccttcttca	gcttcttcat	cttactgtac	agctttgcca	ttcatagata	540
catacccttc	atcctgtggc	ccatttctga	cctcttcaac	gacctgattg	cttgtgcggt	600
ccttgtggga	gccgtggtct	ttgctgtgag	aagtcggcga	tccatgaatc	tccactactt	660
acttgcgtgtg	atccttattg	gtgcggctgg	agtttttgcg	tttatcgatg	tgtgtcttca	720
aagaaaccac	ttcagaggca	agaaggccaa	aaagcatatg	ctggttcctc	ctccaggaaa	780
ggaaaaagga	ccccagcagg	gcaagggacc	agaacccgcc	aagccaccag	aacctggcaa	840
gccaccaggg	ccagcaaagg	gaaagaaatg	acttggagga	ggctcctggg	gtctgaaacg	900
gcagtgtatt	ttacagcaat	atgtttccac	tctcttcttc	gtcttctttc	tgggaatgggt	960
ttcttttcca	ttttcattac	cacctttgct	tggaaaagaa	tggattaatg	gattctaaaa	1020
gcctaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aacagnancc	1080
c						1081

<210> 458
 <211> 1044
 <212> DNA
 <213> Homo sapiens

<400> 458

gctgagcacg	ccctctgagc	cgctcgggtg	acaccaggca	ctctagtagg	cctggcctac	60
ccagaaacag	caggagagag	aagaaacagg	ccagctgtga	gaagccaagg	acaccgagtc	120
agtcatggca	cctaaggcgg	caaagggggc	caagccagag	ccagcaccag	ctccacctcc	180
acccggggcc	aaacccgagg	aagacaagaa	ggacggtaag	gagccatcgg	acaaacctca	240
aaaggcgggtg	caggaccata	aggagccatc	ggacaaacct	caaaaggcgg	tgcagcccaa	300
gcacgaagtg	ggcacgagga	gggggtgtcg	ccgctaccgg	tgggaattaa	aagacagcaa	360
taaagagttc	tggctcttgg	ggcacgctga	gatcaagatt	cggagtttgg	gctgcctaata	420
agctgcaatg	atactgttgt	cctcactcac	cgtgcacccc	atcttgaggc	ttatcatcac	480
catggagata	tccttcttca	gcttcttcat	cttactgtac	agctttgcca	ttcatagata	540
catacccttc	atcctgtggc	ccatttctga	cctcttcaac	gacctgattg	cttgtgcggt	600
ccttgtggga	gccgtggtct	ttgctgtgag	aagtcggcga	tccatgaatc	tccactactt	660
acttgcgtgtg	atccttattg	gtgcggctgg	agtttttgcg	tttatcgatg	tgtgtcttca	720
aagaaaccac	ttcagaggca	agaaggccaa	aaagcatatg	ctggttcctc	ctccaggaaa	780
ggaaaaagga	ccccagcagg	gcaagggacc	agaacccgcc	aagccaccag	aacctggcaa	840
gccaccaggg	ccagcaaagg	gaaagaaatg	acttggagga	ggctcctggg	gtctgaaacg	900
gcagtgtatt	ttacagcaat	atgtttccac	tctcttcttc	gtcttctttc	tgggaatgggt	960
ttcttttcca	ttttcattac	cacctttgct	tggaaaagaa	tggattaatg	gattctaaaa	1020
gcctaaaaaa	aaaaaaaaaa	aaaaa				1044

<210> 459
 <211> 1081
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE

<222> (1076)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1078)
 <223> n equals a,t,g, or c

<400> 459

gctgagcacg	ccctctgagc	cgctcgggtg	acaccaggca	ctctagtagg	cctggcctac	60
ccagaaacag	caggagagag	aagaaacagg	ccagctgtga	gaagccaagg	acaccgagtc	120
agtcatggca	cctaaggcgg	caaagggggc	caagccagag	ccagcaccag	ctccacctcc	180
acccggggcc	aaacccgagg	aagacaagaa	ggacggtaag	gagccatcgg	acaaacctca	240
aaaggcgggtg	caggaccata	aggagccatc	ggacaaacct	caaaaggcgg	tgcagcccaa	300
gcacgaagtg	ggcacgagga	gggggtgtcg	ccgctaccgg	tgggaattaa	aagacagcaa	360
taaagagttc	tggctcttgg	ggcacgctga	gatcaagatt	cggagtttgg	gctgcctaata	420
agctgcaatg	atactgttgt	cctcactcac	cgtgcacccc	atcttgaggc	ttatcatcac	480
catggagata	tccttcttca	gcttcttcat	cttactgtac	agctttgcca	ttcatagata	540
catacccttc	atcctgtggc	ccattttctga	cctcttcaac	gacctgattg	cttgtgcggt	600
ccttgtggga	gccgtgggtc	ttgctgtgag	aagtcggcga	tccatgaatc	tccactactt	660
acttgcctgtg	atccttattg	gtgcggtgtg	agtttttgct	tttatcgatg	tgtgtcttca	720
aagaaaccac	ttcagaggca	agaaggccaa	aaagcatatg	ctggttccctc	ctccaggaaa	780
ggaaaaagga	ccccagcagg	gcaagggacc	agaacccgcc	aagccaccag	aacctggcaa	840
gccaccaggg	ccagcaaagg	gaaagaaatg	acttggagga	ggctcctggg	gtctgaaacg	900
gcagtgtatt	ttacagcaat	atgtttccac	tctcttccct	gtcttctttc	tggaatgggt	960
ttcttttcca	ttttcattac	cacctttgct	tggaaaagaa	tggattaatg	gattctaaaa	1020
gcctaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aacagnancc	1080
c						1081

<210> 460
 <211> 1081
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1076)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1078)
 <223> n equals a,t,g, or c

<400> 460

gctgagcacg	ccctctgagc	cgctcgggtg	acaccaggca	ctctagtagg	cctggcctac	60
ccagaaacag	caggagagag	aagaaacagg	ccagctgtga	gaagccaagg	acaccgagtc	120
agtcatggca	cctaaggcgg	caaagggggc	caagccagag	ccagcaccag	ctccacctcc	180
acccggggcc	aaacccgagg	aagacaagaa	ggacggtaag	gagccatcgg	acaaacctca	240
aaaggcgggtg	caggaccata	aggagccatc	ggacaaacct	caaaaggcgg	tgcagcccaa	300
gcacgaagtg	ggcacgagga	gggggtgtcg	ccgctaccgg	tgggaattaa	aagacagcaa	360
taaagagttc	tggctcttgg	ggcacgctga	gatcaagatt	cggagtttgg	gctgcctaata	420
agctgcaatg	atactgttgt	cctcactcac	cgtgcacccc	atcttgaggc	ttatcatcac	480
catggagata	tccttcttca	gcttcttcat	cttactgtac	agctttgcca	ttcatagata	540
catacccttc	atcctgtggc	ccattttctga	cctcttcaac	gacctgattg	cttgtgcggt	600
ccttgtggga	gccgtgggtc	ttgctgtgag	aagtcggcga	tccatgaatc	tccactactt	660
acttgcctgtg	atccttattg	gtgcggtgtg	agtttttgct	tttatcgatg	tgtgtcttca	720
aagaaaccac	ttcagaggca	agaaggccaa	aaagcatatg	ctggttccctc	ctccaggaaa	780
ggaaaaagga	ccccagcagg	gcaagggacc	agaacccgcc	aagccaccag	aacctggcaa	840
gccaccaggg	ccagcaaagg	gaaagaaatg	acttggagga	ggctcctggg	gtctgaaacg	900
gcagtgtatt	ttacagcaat	atgtttccac	tctcttccct	gtcttctttc	tggaatgggt	960

ttctttttcca	ttttcattac	caccttttgc	tggaaaagaa	tggattaatg	gattctaaaa	1020
gcctaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aacagnancc	1080
c						1081

<210> 461
 <211> 1081
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1076)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1078)
 <223> n equals a,t,g, or c

<400> 461						
gctgagcagc	ccctctgagc	cgctcggttg	acaccaggca	ctctagtagg	cctggcctac	60
ccagaaacag	caggagagag	aagaaacag	ccagctgtga	gaagccaagg	acaccgagtc	120
agtcattggc	cctaaggcgg	caaagggggc	caagccagag	ccagcaccag	ctccacctcc	180
acccggggcc	aaacccgagg	aagacaagaa	ggacggtaag	gagccatcgg	acaaacctca	240
aaaggcggtg	caggaccata	aggagccatc	ggacaaacct	caaaaggcgg	tgcagcccaa	300
gcacgaagtg	ggcacgagga	gggggtgtcg	ccgctaccgg	tgggaattaa	aagacagcaa	360
taaagagttc	tggctcttgg	ggcacgctga	gatcaagatt	cggagtttgg	gctgcctaata	420
agctgcaatg	atactgttgt	cctcactcac	cgtgcacccc	atcttgaggc	ttatcatcac	480
catggagata	tccttcttca	gcttcttcat	cttactgtac	agctttgcca	ttcatagata	540
catacccttc	atcctgtggc	ccatttctga	cctcttcaac	gacctgattg	cttgtgcgtt	600
ccttgtggga	gctgtgtgtc	ttgtgtgtg	aagtcggcga	tccatgaatc	tccactactt	660
acttgtgtgt	atccttattg	gtgcggcttg	agtttttgc	tttatcgatg	tgtgtcttca	720
aagaaaccac	ttcagaggca	agaaggccaa	aaagcatatg	ctggttcctc	ctccaggaaa	780
ggaaaaagga	ccccagcagg	gcaagggacc	agaacccgcc	aagccaccag	aacctggcaa	840
gccaccaggg	ccagcaaagg	gaaagaaatg	acttggagga	ggctcctggg	gtctgaaacg	900
gcagtgtatt	ttacagcaat	atgtttccac	tctcttccct	gtcttcttct	tggaatgggt	960
ttctttttcca	ttttcattac	caccttttgc	tggaaaagaa	tggattaatg	gattctaaaa	1020
gcctaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aacagnancc	1080
c						1081

<210> 462
 <211> 1006
 <212> DNA
 <213> Homo sapiens

<400> 462						
ggcacgaggc	gatctgtcca	cctcggcctc	caaaatgctg	gggttacagg	catgagccac	60
tgtgcctggc	ctttgtatct	ttgtcataca	ttttatttcc	cagtattata	gactccagaa	120
tatgttgttg	ttattgtttt	aaaagtcagt	tatcttctta	gttttctttc	agaaaaatta	180
aatgggtgag	ttttttgttt	gtttgtttgt	ttgttttgca	tggcccatgt	atctaccatt	240
cctgggtgctc	ttccttcttt	tgtgtggatt	cagttttcca	tctagtatca	ttttcgttct	300
ggtaaaagca	tgtttgacat	ttcctgtagt	atgcttgctg	gtgacacatt	cttcctcagc	360
ttttgtctga	aatgccttta	tttcaccatc	atttttgaag	gatgtttttg	ctgggtatag	420
aattctaggt	tggtagtgtt	tggtattttt	cagcattttt	aaggtgacat	ttggcttgta	480
catgttggtc	ttgagaattc	tgcagttatt	ctttgttcca	ctgtatgtaa	taatataatg	540
ttttctcctt	tctctgattt	taagggtttt	ctctttgttg	ctgatattct	gaaactgact	600
atgatgtgtc	tttgtgtgtg	tttctttgtg	gtttttttcc	tgtggaattt	attcaacttc	660
tgggatctgt	aggttatagt	tttcacaaat	tggaaatttt	tgacattact	tcttcagaca	720
ctttttctgt	cttccctctc	atcattcttg	gatttgaatt	acatgtatac	agtaactgtt	780
gttggttcat	aggtgactaa	ctgggtaggg	gaatgtctgg	ttcccttact	atccggtgaa	840
gtagcagaac	caccttttgc	aggaatcagt	tatcaggccc	tttactttcc	cttgaactct	900

aggctagttc cagaaccttt ggtggactgg aaagaggaaa tagttatgcc acaattttta 960
gtacatgcaa atgtacatgt aatgttttaa aaaaaaaaaa aaaaaa 1006

<210> 463
<211> 1160
<212> DNA
<213> Homo sapiens

<400> 463
ggttgggtca aggtaactct gggctacaga gtccttgctg ggggttcggg gagcgcttgg 60
accccggtt ctgggacgcg tcaggagaag ggagcactgg ctttgctttc atcaggccaa 120
agatgccttt ytttggaat acgttcagtc cgaagaagac acctcctcgg aagtcggcat 180
ctctctccaa cctgcattct ttggatcgat caaccggga ggtggagctg ggcttggaat 240
acggatcccc gactatgaac ctggcagggc aaagcctgaa gtttgaaaat ggccagtgga 300
tagcagagac aggggttagt ggcggtgtgg accggaggga ggttcagcgc cttcgcaggc 360
ggaaccagca gttggaggaa gagaacaatc tcttgcggtt gaaagtggac atcttattag 420
acatgctttc agagtccact gctgaatccc acttaatgga gaaggaaactg gatgaactga 480
ggatcagccg gaagagaaaa tgaagacccc agagacattt attggggagt aggatgtggc 540
tgagtgcctt ttttttggcc agactagcgg attcagtcctt ggaagagagt atcatataat 600
gagaccaca ggcactggca cccttgggtt ggcaatagaa ggtgacatgg aatggagaaa 660
accaagattc agatgggga tagtaactag aaggtgcttc agatgcactg cctgcgggtg 720
ccagtctgaa aaccagaccg cacagaggcc tggggctgct gatgagcttt ttggtgctct 780
ccacacaaa gctcgcaaac acacatgtcc cagaatagct ctgttgggtt gtgttgggag 840
aagcggctgg agttcattct ctcacccctt tatgttgggt tttggcgtgt gacagcagtt 900
ctacagagct ctgtgttggg gtcattggat agcggctctc ttggctctta aaggcaggcc 960
tctctcttct tgccttttaa gaatcctcct tctcacacc tggcctcctc tggcttcagc 1020
ttctcagcag caagcaccag ccttccacaa caacactata tttttatgct actttcctgt 1080
ttgcactact acttttttat taaacgatgt taaataaaaa aaaaaaaaaa aaaaaaaaaa 1140
aaaaaaaaa aaaaaaaaaa 1160

<210> 464
<211> 1258
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (161)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (245)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (364)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (408)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (440)
<223> n equals a,t,g, or c

<220>

<221> SITE
 <222> (1210)
 <223> n equals a,t,g, or c

<400> 464
 gttctgggaa ggggtgtgat gcattaagga gatggtgtct gcatggtgcc accgcaggsc 60
 atggccagct ggatctgtgt cttctgcacc agcccatctg gatgcagtgc aacctgtctg 120
 gtctgctatc ctgcgttccc ctaactggca ccctcctggg nccagccagc agcaggacat 180
 agaccaaggc caacctcctc cacacccagg gcctctgcct tctaccctct gtggagtctc 240
 cattnaactt gggcattgac agggctgtct gactcaaaac aacccagcc ctgccctgaa 300
 gccatctcgc cagtcagtca gagctcaaga ytytctctt ctctggagaa gagcaggaaa 360
 gtantcccag ctaacctca tgcagccacc actctgtgtc agaatctntt ctaggccatt 420
 gcattgaata agtcatttan tccatataaa cctgcaagga gtaggtgata ttgttaaccc 480
 cattttatag gcgagaaact gaggcattgt gagttaagt accagcaagt ggaaatctga 540
 ggtttgaccc atctcctggg gtggagtcca gttctctcag cttcactgat ccttctctgat 600
 ttgtgtctgag ttaggacccc ttgggaaccc ccatgggcag ggggtgctgg tgctagcatt 660
 tcctgtggat tatgggaggg ggatgtgtgg aggacctgtg tctactgttc ctctagcctc 720
 tgggggattt ggagaaccca ctctgccag agatgtaagt catcttkgga watagatgag 780
 acttkttccc cctccccctk aatcccragg cacagctcta tggaataagc tctagctgga 840
 acttgtaaag tttggcccas ccctccctgg gaggctagga gktgggraag agccaggaga 900
 ctcraagtgg tgggtgtagt taatgtctat gtggttagac gtaaacagt tactctgtgg 960
 tgccaggcac tgtcctaggc acgctatagt tatcattgtc tcctttgggtg cccccagaca 1020
 gccagggtc aagacaggta gcctcagttt acagatgcag cagtggaggc ttgcacaatg 1080
 agtaggtggc tttgttcaaa tcacagacct aggccaggta taaaagccta agtgtggtgt 1140
 aattccagca ctttgggagg ccaaggcggg gagattgctt gagtccagga gtttgacacc 1200
 agcctgggcn acatagttag accctgtctc tacaaaaaaa aaaaaaaaaa aactcgag 1258

<210> 465
 <211> 1200
 <212> DNA
 <213> Homo sapiens

<400> 465
 ggcacgagaa aaaatgtaag ctgaaatgat gacgtgttct tttagaaggt ttatcatagc 60
 aactactata ggcagtgatt ctaagaagat gctattcttt tttccattg ctttgtctag 120
 tttttttttt ttaaactctgt ttttgtgcct ttgtaattct agggttattg gtatagttct 180
 caccatatct tgaatacaga tgctttttcc tttggaaata atttctcata aagcacattg 240
 cttatagctg cttccctttt cccagagtag taaaagttgt gatacaagac agtgatatca 300
 gctgggcgtg gtggcacacg cctgtaatcc cagcacgttg ggaggccaag gcaggcagat 360
 cacttgaggc caggagttag agaccagcct ggccaacatg gtgaatcccc gtctctacta 420
 aaaatacaca caaaaaatta gctgggtgtg gtggtttgtg cctgtagtcc cagctactcg 480
 ggaggctgag gcacgagaat tgcttgaacc agggagggtg aggttgcagt aagctgagat 540
 tgcaccacta cactccagcc tgggtgacag aacgagactc tgtctcagaa aaaaaaaaaa 600
 agagacaatg atatgaaaag gtcttacatg aatgagtttt acgcatgatt caatctgtaa 660
 gtcctataaa ttattttttga tggatgggtat ctattttctt cctattagta gttttgggca 720
 aaaataaatt taactgaatg taaaaatatt cagctctatg gggagctgag aagaactaaa 780
 tattttcaga cacttgttat gtgcagggtg tttggcatat atttttaaaa atctttataa 840
 taccattttg aattaaattc tatccccatt taacaaatga ggaggtggtt tctattctta 900
 agtaactttc caaaaatcac tcaattaagt ggcaagggtg ggatttaaat cgaagcctat 960
 actctttcac ttgtttccaa agatgccaaa ctcaaaatgt ggctaaacag taaatcttga 1020
 gcaaagaaat gatttactag gaagcagcac aatagaacat actggatgta ggaaatgtta 1080
 tatactttga tctcattggg ggtaacacaa gtatatacat atgaaaaagt tagttttatc 1140
 cttactgtta gtactcagt ctcttattat tcctcaaaaa tgaaaaaaaa aaaaaaaaaa 1200

<210> 466
 <211> 1652
 <212> DNA
 <213> Homo sapiens

<400> 466
 aaaaaaagaa aatacagtaa gtagccacat aaaccgcttc tagctgggtc cactgggtccc 60

cctgcttctt gtttattaac ggaatctgtt caggggctct agggctcaga gctttagggg 120
 agtctgagcc cttctccagc cctgggggtga tgggtcttga ttgatccagg tcaaattctc 180
 cacagattta attctggcca atgaatatga gaagaaatga gaaggtggaa aggtgtctta 240
 gtctactttt tgctgctata ataaaaatag caatacatgg ggtaaattat aatgaagaga 300
 aatttatctc atggagtctt ggaggctggg gaggctccaa atcaaggtgt tggcatctgg 360
 tgaggagctt cttgctgtcc accccatggg ggagggtgga agggcagaaa gagagagagg 420
 gctggaggcc aataggtggc tgaactcatt tttttatgag gaaccactc ccataataac 480
 agcattaatc cactcatgag agcagagccc ccatgaccca accatttccc attaggtcct 540
 acctcccccac acccactgca ctggggatca agtttccaac acatggaact ttgggagaca 600
 cattcacgac atagcagagg accactggag aaaggaaggt ttttaaagat ttttttagg 660
 acactatgga agtgatagcc attggacatg gatgggtgtt ttgttttttg catgggaaaa 720
 ggcttatata actctggtca acttggaac actaatcaaa agtcaaaatc tcctttgacc 780
 ctagggatcc cctactatta acagtattat atcttataga acctaggtat ttaggaaaga 840
 aaaaaatgtt caaagatgta ttgacattta ataaaagcaa ataactggac ataaccagc 900
 tatccaaata caggctatca ggaaacactg tgaaggactt tgaaataggt cttgccact 960
 gccccacccc ctgctccaa ttactgagt tctgtctaa tctagccac cyttctgagt 1020
 tgattccctt tcatttctact gcctttgagc tactttacaa ttacgtaaat taagggaaac 1080
 tgataatgca gatgattctk gttcatagaa atgcaaattg tgaccaatgg aatataactg 1140
 attattgttc tgcaggatc agccaatttt gccagttttg taactacgaa gcaaactcat 1200
 ttcagcattc ctgctaggct tataattatt tgttcttttg attctccttt gagccaatta 1260
 aagtgtccta ctggttctct caataattaa caagttaaat acaatcatct ttaacatgtt 1320
 acttttatat ttgtatgagt cataatttta acttctaaaa aaattatctt ttaacaaggt 1380
 agttaagtaa atttaatgtt catgtggtat aatttactta gcagccctct taaaacagtt 1440
 ataaaaacca tatggcaaca gggacaaata ctctgataa aaatggcaag tggggaaaaa 1500
 agcagaaatg caaaatttgt actacgttgt gattaaagct aaacgttgta agtgcttagg 1560
 gcaagaaata ggaaggagaa aaaaaattga agttggattt gtttgtagg gtggtaggat 1620
 cctggattaa aaaaaaaaaa aaaaaactcg ag 1652

<210> 467
 <211> 1981
 <212> DNA
 <213> Homo sapiens

<400> 467
 ggcacgagtc acccaacaat gtttttttca tgttgatcac tttactaaag cgaacaattg 60
 gggttttacc aaaattgtga aggattttat tcttccatac ttatgtctgt gttcagggc 120
 atacagattc tactttttcc ttttagttta aggtattctc ttggagattt aatgtactta 180
 aatttgacca caattttatt agagcatatt ctgtgtcaga cattgcactc tgcactagat 240
 attcaggaat ttctaaaaag aatgttaaca ttgctgttac atagtcagtt actgatcaca 300
 ttcttttctc ctcaactttt ttcaaaaatag gaatctgagg tatgttttca cgtatggagt 360
 tcaggtcagg cttaggggtc cctgacaatg tgaatagttt taagctgggc ctcaattcgt 420
 ggtaccctta tactaattta acaagccgtg gactctaggt tccacaaaaa atattttgtt 480
 ccattccttc tggtttcagt ccatggtggt acagaaagaa aactaaggaa cttcagcccc 540
 aaattgtcaa attttgctac ttaagaaaca gaagatttaa atctatcatt ttgtcttata 600
 ttccagagtt gactggttcc tcctgtcttt aacttcttgt ccttgaaggg tatttcaatt 660
 ttcattcaga aatatgactt ctcatagggt ttgtgttaga tattttcagg gccagatgga 720
 tatgatgttc ccatttctgt tttattgtta aactactatt ccttttgagc tgtaatgaac 780
 aattcattct gagaggcaat atatgttttc cagtaattga cttgaataaa agtaaatgtt 840
 aaacatggag ttactaaagt taatacagtg ggtattagta ctaatttgtt caaattaaga 900
 tagaattctt aatttgataa atagaattct tatattacag catcagttca attggattga 960
 tagtttgtaa aaggtaattt cttacatgaa gaaagacagg ttttctttct cttagcaagg 1020
 tattaatgca aaaatgaact cttcatttcc taccagcttc cgaaggaaat gctggttagg 1080
 agtaaatca atttactcta ccaaccaact tcacatctgt tatgctgaag tcagagttta 1140
 tctttcttgt tatgtggaac ctagaaatat accatgagga atactgaaaa taaactagca 1200
 gaaattttgc gtgatgctga ggatttttag atggctgcaa aatgggtgaa agtaataata 1260
 acttaacaaa gaatgttgct acaactctct ggaacttagt actgttttct aactacaaat 1320
 ggaagatttg tgagactagg tgcacttaac gtgatttcaa tgcagtaatt actgtgtggc 1380
 atgggcatgg taagagatag gccttttcta gaaatattct catctctgtt ttttttagtt 1440
 gctcttactt agatttatat taactcagct tcacatttct atttcttttt attttatttt 1500
 aaacaatgag aaaaatactc cacgatgtca ctgatttagt tatcagattt gctttatttc 1560
 tgtatataat aggtaatgtg agtacaggaa atatatctga aaaggttact tgtacctaaa 1620

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (767)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (772)

<223> n equals a,t,g, or c

<400> 469

gtcatgttta	agtggggata	atgacattgg	catacctgct	tgctagagtt	aatgtgtggg	60
tcatgagata	acgaatataa	caaataatttg	gaaaagtact	atgtygaaat	atttttaa	120
aaamttttaa	tccctcttma	ttyagaaagg	atgtgaggca	gctaaatgca	gagggtgtaag	180
atgggttttt	ggttaggatt	gtttctgagc	tgtgactctg	tagtcacttt	cttactcagc	240
cctgccactc	agctgtattc	ctctgtagct	ctgggcagac	gactctgaac	ayggcttcat	300
attggccttc	catgagtggg	tgaaggggcat	agtcatctgg	cagttttacc	tgctgttcta	360
tgcattgtct	tccagcgctt	gcttattttc	cccttctgca	aacattccat	tcatgccatg	420
ggcattcagt	acagtcctgt	aagcaagggt	aggggcggca	caccaggtgg	atttaagcgc	480
aaagacagga	cgactgcttt	nccacaggcg	cctttacagc	cagcagtgaa	cagttagaca	540
tattcacctt	cctctagggtg	gaaaacagtc	ctcttctcag	tagccctctc	atgttcttga	600
gacccatttg	atataaataa	cartgttgca	ggaaatttcc	tgaaggaact	gaaatgaacc	660
atagaaacga	gatcgttctt	ttcctaccac	acagctggga	ttagactgct	tagtttgtac	720
ttgcagcact	tttgagctat	gggccgtatt	aaaaaaaaa	aanaaanact	cngaag	776

<210> 470

<211> 727

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (713)

<223> n equals a,t,g, or c

<400> 470

ttttcacgtg	tcctattttc	ttgataatag	gtaccccgga	ttccatcagt	cttaaattat	60
gacttccaaa	gaggctcttca	ctggattcag	cacctgtcgt	aactgactgt	ataccagtt	120
ctcagaaatg	acttgtgtyt	agtctagttt	ttagtgtagg	taaggaaaaa	aactgagata	180
tctctttcta	ggactgctgt	ataaataagt	actcacatat	aagtacaatg	ttcagtagaa	240
ctgaaaacag	aagagtgggg	caaaaaggag	ataggatacc	aacaggacca	cgtctctgta	300
ccttaaagtt	tttaaaggaa	atcttttcaa	gaagccacat	actaaaaaac	tgatttttca	360
tagtccaaca	aattactgct	taaaaatgct	ggacaatgga	aatcaaatat	aatcagagca	420
aatgaagac	tctcaccata	tattacttct	tgccgtttga	ccacatcttt	cttttgctgt	480
tttagaaact	tgctgtctat	tatccgactc	caagactctg	cttccagctg	tttggactca	540
atctcaaagt	ctcccagtag	ttgtccttca	ktcatgtctg	tacmtactcc	tcartatata	600
aaaaaatcaa	tatcagaatc	aggtttgtga	cctgtaaaaat	aagcctatgt	tggactttcc	660
tcaagatgat	agttgatttc	ataagaccat	gaatacaggg	ggatatccca	ganatcatat	720
tctagta						727

<210> 471

<211> 1860

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (821)

<223> n equals a,t,g, or c

04950082-091201

09950560
T.03160 "030560"

```

<400> 471
ggcacgaggt cccccactaa aattaaaact aaactgctac ttctgtccat tctccctggc 60
cgggtgttctt gctgctgtgt ggcttctgtt agaagttcgg aaacgaattt ttggagagga 120
aagtcagact aatccttcaa gtcttttgag aaacaggtct tctgcattag ctgaggggca 180
ggagttcttg gcttgccatg tgggtgtctga gccatctctc tctctctctc tctctctctc 240
atctctcttt ggccaggcgg gcaggaagac ctatgccatg gtgtccagcc actcagctgg 300
tcattctctg gcttcagaac tgggtggagtc ccatgatgga catgaggaga tcattaaggt 360
aagcttagtt cacctccaac ttttctccct gtctcttcc tccctgcacg tatatgagaa 420
ggagcagttg atgttgttgc caaagggagc ttgtggtttg atggaaggaa ccagacctga 480
gctgctagtt cctggcaatc tcctagaaat atcttaatta ataccaggag actacagtct 540
gcctgttagc aactttgggt cagcctggcc ccaggcaagg ggatggactg gatgacctta 600
ctaggggcct atccactgac catgttttgc tgctaaaggt tgtggagaca ggtaggaggt 660
gtgtttatgg aaaaccattt gagtatgaca actatagcat gaaacatcta aggtttgaaa 720
gcattttaca agaaaaaaaa ataattcaga tcacatgttg agattaccat tctcttgcac 780
tctcaaaagg taatttttct gtaatattaa tagttttgta naagtaatac ctgtgtgtat 840
atgtggagcc agtagaatgt ctatatttca cttgtaacag gacagaaata cagttttgaa 900
tttgatatgg ttccgagtac gattcttaaa gtaaatacat aatgagagaa ttcttggatc 960
tgtaaaatgt tcaggtttcc aaaattacta ttcttaaatt tggtttcatg tttttatatt 1020
tcaagtacga aacagtgaaa attttctgaa taatcaaaac tgttttctct acatctgatc 1080
caggcctggg gccacccttt tccagaaact gcttcccttt tcctaacacc tttccaactt 1140
ccactcttcc ggctcagaat ccccttttgt ggccaggctg cagacctctg atacgtttta 1200
acattgcttt tgaattcaag gatctcccta gccctgtagt atttcccat tctatcaga 1260
cactgtcatg gtgggaaatg gaagcagtga atatgaatta ttttctaaa gaaacttgac 1320
tatgaggcca ggcttgggtg ctaatgccta taatcccaa gtgctgggat tacaggcgtg 1380
agccactgcg cccggccaca ttcagttctt atcaaagaaa taaccagac ttaatcttga 1440
atgatacgat tatgcccaat attaagtaaa aaatataaga aaaggttatc ttaaatagat 1500
cttaggcaaa ataccagctg atgaaggcat ctgatgcctt catctgttca gtcactcca 1560
aaaacagtaa aaataaccac tttttgttgg gcaatatgaa atttttaag gtagaata 1620
ccaaatgata gaaacagact gcctgaattg agaattttga tttttaag tgtgttctt 1680
tctaaattgc tgttccttaa tttgattaat ttaattcatg tattatgatt aaatctgagg 1740
cagatgagct tacaagtatt gaaataatta ctaattaatc acaaagtga agttatgcat 1800
gatgtaaaaa atacaaacat tctaattaaa ggctttgcaa cacaaaaaaa aaaaaaaaaa 1860

```

```

<210> 472
<211> 1854
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (1280)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1826)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1835)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1852)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE

```

<222> (1853)

<223> n equals a,t,g, or c

<400> 472

agatccttgcc	atcatactcc	agcytgggca	acaagagtga	actccatctc	acacaaaaaa	60
aagaatgttg	aatattggcc	cgcactctct	tctggcttgt	agtgtttccg	cagagaaatc	120
cactgttagt	ctgatgggct	tccctttgtg	gataacccga	cctttctctc	tggctgcctt	180
taacgttttt	ttcattcctt	tcaaccttgg	tgaatctgat	gattacgtgt	cttggggctg	240
ctcttctcga	gaagtatctt	tgtgggtggc	tctgtctttc	ctgaacttga	atggttggct	300
gtcttgctag	gttggggaag	ttctcctgga	taatatacctg	aagagtgttt	tccaacttgg	360
ttccattctc	cccatcattt	tcaggtagac	cagtcaaaca	taggtttggg	cttctcacat	420
agtcccatat	ttcttggagg	ctttgttcat	tccttttcat	tcatttttct	ctaactctgt	480
cttcatgctt	tatttcatta	agttgatctt	caatctctga	tatccttttt	tccacttgat	540
cgatttggct	attgatactt	gtgtatgctt	cacaaagtct	ttgtgctgtg	tttttcagct	600
ccatcaggtc	attgatgatt	ttctctagac	tggttattct	agtttagcaat	tcttctaacc	660
ttctttcaag	gttcttagtt	tccttgcagt	gggttagaat	gtgctccttt	agctcggagg	720
agttaccac	cttccgaagc	ctacttctgt	caattcgtca	aactcatttt	ccatccagtt	780
ttgtttcctt	gctggcgagg	agttatgatc	ccttggagga	gaagaggtgt	tctgggtttt	840
ggaattttca	gccttcttgt	gctgggtttt	cctcatctcc	ctggatttat	ctgccttttg	900
tctttgatgt	tggtagacct	tggatggggg	ttttgtgtgg	acatcgtttt	tgttgatgtt	960
gatgctatct	ctttctgttt	tttagttttt	ctcctaacag	gcaggcttct	ctcctgcagg	1020
cctgctggag	tttgctggag	gtccactcca	gaccctgttt	gcctgagtat	cactagcaga	1080
cactgcagaa	cagcaagatt	gctgcctgct	ccttcctctg	gaagtttcgt	cccagagggg	1140
cacccgccag	atgctagtgg	agctctcctg	tatgaggtgt	ctgttgacct	ctgctgggag	1200
gtgtctccca	gtcaggaggc	acaggggtca	gggacccact	traggaggca	gtctgtccct	1260
tagcagagtt	tgagtgtcgn	gctgggagat	tcgctgctct	cttcagagct	ggcaggcagg	1320
aacattttacg	tctgtctgaag	ctgcacccac	agccgcctct	tccgccaggt	cctctgtccc	1380
agagaggtgg	gagtttttatc	tgttagcccc	tgactggggc	tgctgccttt	ctttcagaga	1440
tgccctgtcc	agagaggagg	aatctagaga	ggcagtctgg	ctatggcagc	tttgagagc	1500
tgtgggtggg	tctgccaatt	cgaacttccc	agaagctttg	tttatactgt	gaggggaaaa	1560
ccacctactc	aagcctcagt	aatgggtggc	gcttctcccc	acaccaagct	tgagagtcce	1620
aggctcgactt	cagactgctg	tgctggcgagc	aagaatttca	agccagtggg	ttttagcttg	1680
ctgggctctg	tggcggtggg	atccactgat	ccacttggct	ccctggcttc	agttcccttt	1740
ccaggagagt	gaacagttct	gtcgtctggc	tttccagggt	tcactggggg	atggaaaaaa	1800
aaaaaaaaaa	aamtccggggg	ggccentacc	cattngcctt	agggggcggt	tnna	1854

<210> 473

<211> 1947

<212> DNA

<213> Homo sapiens

<400> 473

ggtggcacat	gcctgtaatc	ccaactactt	gggaggctga	ggcaggagaa	tcgcttgaac	60
ccaggaggtc	aggttgcggt	gagccgagat	cttgccatca	tactccagcc	tgggcaacaa	120
gagtgaact	ccatctcaca	caaaaaaaaa	aatgttgaat	attggcccgc	actctcttct	180
ggctttagt	gtttccgcag	agaaatccac	tgttagtctg	atgggcttcc	ctttgtggat	240
aacccgacct	ttctctctgg	ctgcccttaa	cgtttttttc	attcctttca	accttgggtga	300
atctgatgat	tacgtgtctt	ggggctgctc	ttctcgagaa	gtatctttgt	ggtgggtctct	360
gtctttcctg	aacttgaatg	ttgggtctgc	ttgctaggtt	ggggaagtct	tcctggataa	420
tatcctgaag	agtgttttcc	aacttgggtc	cattctcccc	atcattttca	ggtacaccag	480
tcaaacatag	gtttgggtctt	ctcacatagt	cccatatttc	ttggaggctt	tgttcattcc	540
ttttcattca	ttttctctca	atcttgtctt	catgctttat	ttcattaagt	tgatcttcaa	600
tctctgaata	tccttttttc	cacttgatcg	atttggctat	tgatacttgt	gtatgtgctc	660
acaaagtctt	tgtgctgtgt	ttttcagctc	catcagggtca	ttgatgattt	tctctagact	720
ggttattcta	gttagcaatt	cttctaacct	tctttcaagg	ttcttagttt	cccttgcagt	780
gggttagaat	gtgctccttt	agctcggagg	agttaccac	cttccgaagc	ctacttctgt	840
caattcgtca	aactcatttt	ccatccagtt	ttgtttcctt	gctggcgagg	agttatgatc	900
ccttggagga	gaagaggtgt	tctgggtttt	ggaattttca	gccttcttgt	gctgggtttt	960
cctcatctcc	ctggatttat	ctgccttttg	tctttgatgt	tggtagacct	tggatggggg	1020
ttttgtgtgg	acatcgtttt	tgttgatgtt	gatgctattc	ctttctgttt	tttagttttt	1080
ctcctaacag	gcaggcttct	ctcctgcagg	cctgctggag	tttgctggag	gtccactcca	1140

<400> 475

ggcagagtgg	gggttggcgt	ataggtgtag	gggcccattgt	tggtttggga	gtratgacag	60
ttcacgcctg	tgggttttgcg	gacaaagata	ccatgccccca	tccctgtctc	cctgtcagca	120
cgcacttggga	agggcgctgg	gggtgttaat	cagcttttgc	agcctggggg	gtgccagcct	180
gggcaggtgt	gctctggtga	tggacagagc	gcctgaggtt	ccatagaggg	aggggtgttc	240
tatgacatct	gagatgtcac	cagcatgccc	ctgatgtgtg	ctccttgc	gtccccaggt	300
gtgctaggca	tgttctgtgt	gtcctggcat	gttaacctgg	cagtatcagg	gtgcatgttc	360
catgtgtggc	acggtgggca	catgttttag	gattgccctc	actgaggtgg	gccttggcac	420
acccccctgc	ctcgtgggcc	cttctcccag	gtggtggaca	tcatgagggg	gaacgtggac	480
aagtycttgg	agcgagacca	gaagctgtcg	gagctggacg	accgtgcaca	tgcactccag	540
gcgggggcct	cccagtttga	aacaagcgca	gccaagctca	agcgcaaata	ctggtggaaa	600
aacctcaagg	taagggtggg	gacaggaagg	aggacaggtg	ggtgaatggg	gtatcatagt	660
ttgtcttact	gatcctcgcc	tctcaccccc	agatgatgat	catcttggga	gtgatttgcg	720
ccatcatcct	catcatcatc	ataggtgagt	agggtagagaa	tggccggggc	cctttccctg	780
gagaggtttc	cccagtggtg	tctaggtttt	gaaggtcatt	aatctagtgt	ttactcttca	840
gccaaaaaca	catatagctg	ctaattggca	ttctgattca	tctararcca	aaaactttga	900
tggtattttag	cctgcatttt	gcctarttct	tggcagtcct	gttaacattt	ggaaataagg	960
aaagctggtg	twccatttga	rgacccttta	ggcctaagag	cccagttctga	gaaccctgga	1020
attgaggagt	gggagaaagg	aaaggaccag	gggcttgaga	catgactagc	cccaagtccc	1080
ttcatttgca	tctgctattg	aatagtcctt	ctccttttcc	tcttcttccc	tcagattttag	1140
ctgatccttc	ctcccaccct	ggccttccct	tctcttttcc	tccctactct	ccccgtcatg	1200
ctcctctctg	cccgccttca	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaa	1257

<210> 476

<211> 1504

<212> DNA

<213> Homo sapiens

<400> 476

ggcacgagca	taactggccc	ctaacaatgg	gggccatctg	cacgctgttg	tatgcagatt	60
tggatgtgtt	ttctagcact	tacatgcaga	tagtgaagct	cctgggactg	gatgtgccat	120
ctctgtgctt	ggcagaactg	gtgaagacct	attgcagcag	cttcaaactg	ttccaagctt	180
caccttctgt	gccagccaaa	tacgtggaag	acaaagagaa	gatgctgtct	cgaacaatgc	240
agttgggtgga	gctggcaaat	gagacgtggc	tggtagaccg	gaggcatccc	ttgcccgtca	300
tactgtctgc	gacttttccg	gcttggcagt	cgctgcagcc	tgcagatcgg	ctttcatgtt	360
cccttgcccg	atthttgtaa	ttggcaaatg	tggaacctgc	ctaccggg	tcctcccgcc	420
tgcaggagct	gctggctgtg	ctgctgcgga	tggctgagca	gctggcctgg	ttacgagttc	480
tgagacttga	caaacgggtc	gtggtgaagc	acatcggtga	ccttctccag	caccgccagt	540
cactgggtccg	ctctgccttt	cgggatggga	cagcagaagt	ggagaccgca	gagaaggagc	600
caccggagtg	gggacagggg	caaggagaag	gggaggtggg	aaataattcc	ttaggtttac	660
cccaggggaa	gcggccggcc	agtcctgccc	ttctcttgcc	accctgcatg	ttgaagtccc	720
cgaagcggat	ctgccttgta	ccccctgtct	ccactgtcac	tggagatgag	aacatttctg	780
atagtgaat	agaacagtat	ttgcgtaccc	ctcaggaagt	tagggacttt	cagagagccc	840
aggctgctag	acaggctgcc	acgagtgtcc	ctaaccctcc	ctgatggata	tccactggga	900
gcacttcac	ctgttctgac	agcttgataa	cattcctgtt	ataaccaagg	atggaagtgt	960
acaccagtcc	gtaggtattg	cttttcttgt	ttgaaggaac	caagaggggc	tctgccatta	1020
gttggaacct	gggtcctgga	gtaaagtcag	gagtgacggg	atgactatag	gtaggagaga	1080
ttcccatccc	ttggtgtggg	agagcaagtt	gcctatgtcc	atgttctgtg	agatggcttt	1140
cctcatagat	ggatgggaaa	atgtcaggct	ctttgctgct	ggtttgaatt	ggacacactg	1200
ctgcggctcc	tcttcagggc	ctgagggggc	ttccctctgc	ttgtggagtg	gttggcattc	1260
ccagcagtat	caaccctcag	aggagcgggg	actggggaat	tctggcccta	cgtgcattca	1320
caggcaatga	tgggttttgt	tgtatgggtg	catgagatcc	tctacctcat	aacaaaagga	1380
cagtggttag	actaaggcag	tagctcaaag	ggctttgcaa	aatttttaata	tattaaaaca	1440
agaggcatct	gctagaaaac	attctattgt	ataaaacccg	agttcttaaa	aaaaaaaaaa	1500
aaaa						1504

<210> 477

<211> 1973

<212> DNA

<213> Homo sapiens

095055091260

<400> 477

```

ggcacgagcg tcacttccgg ctctcttcag tccgctggte ccgagcacga gctgtgaggg 60
gattcacttg tgtgcggaac tcctcggaac catggcgctcc ctttcccttg cacctgttaa 120
catctttaag gcaggagctg atgaagagag agcagagaca gctcgtctga cttcttttat 180
tggtgccatc gccattggag acttggtaaa gagcaccttg ggacccaaag gcatggacaa 240
aattcttcta agcagtggac gagatgcctc tcttatggta accaatgatg gtgccactat 300
tctaaaaaac attggtgttg acaatccagc agctaaagtt ttagttgata tgtcaagggt 360
tcaagatgat gaagttgggt atggcactac ctctgttacc gttttagcag cagaattatt 420
aagggaagca gaatctttaa ttgcaaaaaa gattcatcca cagaccatca tagcgggttg 480
gagagaagcc acgaaggctg caagagaggc gctgttgagt tctgcagttg atcatgggtc 540
cgatgaagtt aaattccgtc aagatttaat gaatattgctg ggcacaacat tatcctcaaa 600
acttcttact catcacaagg accactttac aaagttagct gtagaagcag ttctcagact 660
gaaaggctct ggcaacctgg aggcaattca tattatcaag aagctaggag gaagtttggc 720
agattcctat ttagatgaag gcttctgttt ggataaaaaa attggagtaa atcaaccaaa 780
acgaattgaa aatgctaaaa ttcttattgc aaatactggt atggatacag acaaaataaa 840
gatatttggt tccggggtaa gagttgactc tacagcaaag gttgcagaaa tagaacatgc 900
ggaaaaggaa aaaatgaagg agaaagttga acgtattctt aagcatggaa taaattgctt 960
tattaacagg caattaattt ataattatcc tgaacagctc tttggtgctg ctggtgtcat 1020
ggctattgag catgcagatt ttgcagggtg ggaacgccta gctcttgta caggtgggtg 1080
aattgcctct acccttgatc acccagaact ggtgaagctt ggaagttgca aacttatcga 1140
ggaagtcatt attggagaag acaaactcat tcacttttct ggggttgccc ttggtgaggg 1200
ttgtaccatt gttttgctgt gtgccactca acaaatttta gatgaagcag aaagatcatt 1260
gcatgatgct ctttgtgttc ttgcgcaaac tgtaaaggac tctagaacag tttatggagg 1320
aggctgttct gagatgttga ttgctcatgc tgtgacacag cttgccaata gaacaccagg 1380
caaagaagct gttgcaatgg agtcttatgc taaagcactg agaatgttgc caaccatcat 1440
agctgacaat gcaggctatg acagtgcaga cctggtggca cagctcaggg ctgctcacag 1500
tgaaggcaat accactgctg gattggatat gaggggaaggc accattggag atatggctat 1560
ctcgggtata acagaaagtt ttcaagtga ggcacaggtt cttctgagtg cagctgaagc 1620
agcagaggtg attctgctgt tggacaacat catcaaagcg gcacccagga aacgtgtccc 1680
tgatcaccac ccctgttaag cattcccacg tgctgtcgat ctttgacca gtttctagca 1740
aagttgtgtt tgaaagatac tctattaaag aagactgtgg aatctgttta tcggtgcca 1800
ttatatcctt aagtttggat atttagctga ccttcgcttt aacatagggtc taatttattt 1860
gccgtgtcat tttccatata aatcagttga tttaaaaaag ttcatttctc atactgtgca 1920
ttaaaataaa aatttgaaca attaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1973

```

<210> 478

<211> 1880

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (642)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (655)

<223> n equals a,t,g, or c

<400> 478

```

ggcacgagca gaaactcatt ctgaaatata aggaggcaat gagcaacaag gcgtgcaggt 60
atattgatga aggacgtggg agctgccccat ttggaggggaa ctgtttttac aagcatgcgt 120
accctgatgg ccgtagagag gagccacaga gacagaaagt gggaacatca agcagatacc 180
gggcccacag aaggaaccac ttctgggaac aattgagga aagagagaac agcaaccctt 240
ttgacaacga tgaagaagag gttgtcacct ttgagctggg cgagatgttg cttatgcttt 300
tggtgtcagt ggggacgacg aactaacaga ctctgaagat gagtgggact tgtttcatga 360
tgagctggaa gatttttatg acttggtatc atagcaacct tgcgtggcgt gtgaactggt 420
ctgctgacct cagacagcag ctgtcccctg tgggtggtgtg gcatgcctgt gttctctcct 480
aggcagctct caactccagg tgctgtccta agaattttta cccagggcct gtcttctcaa 540

```

ccccacacct	ttccctagag	gagtgtgttg	ttttccctgt	ggaaaaaagt	tacaaaaaata	600
aatcttaaag	ttagtttttg	gtaacacaaa	tttaactgtc	anacagttag	tgtangtgtg	660
ttgcgtcacc	tgttttccaa	caaagtggcat	ttatggactt	tccacacact	catttttgagg	720
accccagggt	caaaaagtaaa	agcagtggcc	ctgctttggg	gtccaagaat	aggagtgtg	780
ggtgaaggga	cctaagctgg	ccaatagccc	tctgccccag	acatgggatg	tggatccttg	840
aggtttctgg	tgaaatctgc	acatctgtgt	ttttatatct	gttccctacc	ctgtaatccc	900
taccacgtgc	acttgttctg	tggttttggg	ctcttgttta	attgcacaca	agtaatacta	960
ctgggtaacc	agaatcaggt	gtgaatgtgt	tgagattttt	tactgttttg	catgatagga	1020
aaattgagaa	agaatacgt	taaaagatag	agaggcataa	catcaatgca	gagttggaag	1080
ttggctccca	agggtcgaca	tgggtgtgagt	gtgtgggtgt	gtgataagct	tctcatccct	1140
gcatagatgc	agtattctta	gccttagtag	aaaaacctgg	tttagtggtt	taagccttgt	1200
gtggcgata	gatcttaaa	ggcaaagcag	tatatggta	gttgtcaata	tagcagtgtc	1260
agctctgtct	atataaatag	agaaatgggg	ttagccatag	aggttaaaac	tacctgggta	1320
tcccatataa	taacacaaac	tgggtcttgg	atacacagtt	gtatttaatg	ttttacgatc	1380
tagcctttcc	agtacaggca	ctttctgaga	aacctttgtc	ctcacttgag	gcatttttgt	1440
gtcgggtttt	tgtgttttgt	tttgtgggta	tttgccctcat	tccacctctg	agctttcagg	1500
tagacagacg	tgattcaaaa	ctctgttcta	agggtgtttat	tgtagtggag	taatgggttt	1560
gcagtgataa	gtcatacttt	tccaccgaaa	gggagggtct	gggaatccct	gagattagct	1620
aaagttaagt	tgtttgaaga	attccttgat	tggaaattgt	accttttgtg	tttgttgctc	1680
tgtttcttga	aaataactcg	gggatgctcc	tggtttgtcc	atctactgct	ttgatccctt	1740
ggatcccacc	cattctttca	ctttaagaaa	aaacaaataa	ttgttgcaga	ggtctctgta	1800
ttttgcagct	gcccttttgt	aagaagcact	tttcccaaat	aaaacaatta	aaaaaaaaaa	1860
aaaaaaaaaa	aaaaaaaaaa					1880

<210> 479

<211> 1361

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (903)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1031)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1264)

<223> n equals a,t,g, or c

<400> 479

gattcaaggc	tcaactccagt	ccacgtttct	agcttccgtc	ttccctcccc	tgcacataact	60
actgcatgta	cctccacagt	cttccctttt	gctttgtctg	catctcatgt	ctttgttgcc	120
tatccaagct	ccctgttgaa	attctatcca	tacttataat	taacatgtcc	cttgattcat	180
acagacttta	tcagcctgcc	cttagtttct	gtcagacaga	attaagtcct	ctgttcccat	240
ataaagcaga	tctttatagc	tgtttttagta	gatattgttt	atatactctt	ctctttcaca	300
gccccttgta	acccatctca	ttcccatatt	ctctttcaac	ccccatctct	ggattacaga	360
tagaaagggt	gataagtttg	tgggctgtgt	ctctttaatc	ttgtacctcc	acagcatcta	420
ggacagtgtc	ttgcctaaag	caaggatgga	attaacattt	gttaatacac	gcttatctgt	480
cagtcttact	atcctcacc	tgtttcataa	ggaaatwata	ttttattwat	attttatttc	540
aatcagtaa	tactgcctgt	cacatcacta	aaacctcaaa	aaacagaaat	gtttgaaata	600
agaattttca	ggtttgcctt	gtgataactg	tatactaact	agttgaaagt	atggattcag	660
tatcttcaaa	gtgttctgat	ttgctaggac	tcactgtttt	cttgtgttta	atcttcagtt	720
tgtgaggtca	tttaattttgt	agcattttgca	aatgttatatac	tgaaaaactc	tgagaatgaa	780
ataagtcact	atactacgta	tttttataaa	taaggaagtgt	cacaattatg	tgacttcaca	840
tttcttgctt	gcttgctttt	tttgggggtgg	ggacggagtg	ttgctctgtc	acccaggctc	900
gantgtgggg	tgggtgtgatc	tctgctcact	gcaacctcct	attcccaggc	tccagtgtatc	960

```

cttctgcctc agctgggact acaggtgtgc accaccatac tggctaagtt ttatatTTTT 1020
tgttgagatg naagtttcac tgtgtgtgcc aggctggctc tgaactcctg ggcttaagtg 1080
atccacctac ttcagccttc caaagtgtcg ggattacagg caggagccac tgtgtccagc 1140
ttacattttt tgtataatca acattagcca gagtaaccac actttagatc tgttgggtctt 1200
caggaaaagc aatatgtgtc tggatgtggg ggctcacacc tgtaatccca acactttggg 1260
aggnccgagg tcggaggatc acctgaggtc aggagtttga agccagcctg gccaacatgg 1320
tggaactcca tctctactaa aaaaaaaaaa aaagggcggc c 1361

```

```

<210> 480
<211> 1921
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (1876)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1877)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1897)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1916)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1919)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1921)
<223> n equals a,t,g, or c

```

```

<400> 480
ggcacgagag aggagtgggc accattttca tccagaggcc cgtcctgaga ggcaagtgag 60
gctgtgctct gtgcctgggc tccccaggt ggcacctgtc ggtctgtgga cctgggtgag 120
gcaaggatgc ccatctggac atggagccga cacaggtagt cagggggcca gcgggacgct 180
taccaacagc tgtcttttcc ccacctcaga atagcattcc tttcgaacac cacggcaagt 240
agctgctcgt ctcccatcgg aaggcagcac tgggtgagtg tgcgcgtggc gggcgccagg 300
cagcagcgcc aggtgggtgg gagccacat gccccaccca tgggagcttg caggtgggct 360
gggcttgcat gccaggtgct ggaggtagar tgaggcttct tctgctctgt tcttcttgtg 420
gggtgcagag cggcggcagt ccgctgccc gtcttggggg gargctgtcc acagagagct 480
ttggaacaga gtgacccag gagaccatcc tgttggcctg tsgcctcccs gtgactgcgt 540
tccgtgtgcc gttgctctcc tctgtctctg ggtgcccacc cgtgaggcag gagtggcaag 600
gcgggtgcc cgagcacttg agttgccttg tctgcggtcg gccgtgctg gaggggctc 660
tgtgtcctgc tcagctgggt ggctccacgc ttgggtgttg gggctcctaa gctcttctgt 720
cgccacactc tgggcagtct ctgccatgcc agcttttcta gtcgcctctc tcttctctgc 780
tcatttatct ctgtccttgt tttgtgtttc ttttcacact tggctctctg ccagccgtct 840
tgtccacgca gcttcgtctg tattaactcc tccagccgca gccactcac tccccgcgt 900
cggtgcatgg ccggcgctca cgtgtgtctc cctcctcggc ggccacgcgc gctcggcggc 960
tccttcagc aggggcttgc gcttctgtcg ggtctgtgcc gctgggagac ccgctgcagt 1020

```


tttcacactg	tgcacactct	ggaaatgtgt	tgacaggaac	tgcttttcat	gtcttccctg	1080
agaggggtac	ccatttttcaa	acaccagggt	cctttccagg	aagggaggca	ggagcacccg	1140
tctycgctcc	actcggatcc	ttcgaccctg	ccgagcccgg	ctccgcgggc	accttgcttg	1200
catgcctctt	cctccttccc	gtcttcctgt	cactcgttct	gctgagcacg	tgtcccagcc	1260
acagagggccc	ctgtgcgtag	cgggggacgc	aggcgtctag	actggggcta	ggcgggtggc	1320
gtgcgctccc	tccctgcccc	gcaccgtcac	tgtggtatct	gcctggccgg	ctccccagc	1380
cccatgctga	ccttctcctg	tgctttggct	ccgacagatt	cctggtcggg	tggcttccag	1440
tggtcttcag	tctgtcgtgc	accgatgaga	actctcctta	ttgctgtgaa	gggcagacaa	1500
tgcatggctg	atctactctg	ttaccaatgg	ctttactagt	gacacgtccc	ccggtctagg	1560
atcgaaatgt	taacaccggg	agctctccag	gccactcacc	cagcgacgct	cgtgggggaa	1620
acatactaaa	cggacagact	ccaagagctg	ccaccgctgg	ggctgcaactg	cggcccccca	1680
cgtgaactcg	gttgtaacgg	ggctgggaag	aaaagcagag	agagaattgc	agagaatcag	1740
actccttttc	cagggcctca	gctccctcca	gtggtggccg	ccctgtactc	cctgacgatt	1800
ccactgtaac	taccaatctt	ctacttgggt	aagacagttt	tgtatcattt	tgctaaaaat	1860
tattggctta	aatctnngaa	aaraaaaaaa	aaaaaanacy	cgaggggggg	cccgnacna	1920
n						1921

<210> 481
 <211> 1211
 <212> DNA
 <213> Homo sapiens

<400> 481						
ggcacgagct	catgcacaga	acactatgca	ttttgaaact	tgttcatcct	ggattttttt	60
aaatcatttt	tatctcagaa	cttaaacaaa	aattagatgt	cgtgcacgga	ctgtgtgaaa	120
gaagatgctt	tgcataattt	ctgcactgca	tcagtatctt	actaaaaatg	tgaaatgaaa	180
ggactattgt	acactgaaat	gcttaaatgt	atctgaaagc	acaaggtgat	actcattttt	240
atgggtcttc	catttgtgct	ggttttttgcc	tctttgacat	ctgtcatcag	tatttagagg	300
gtgagaagt	aatgtaacag	gtataaataa	cattttttaa	aacaataact	ttgctataat	360
cacagttggt	ccagagcact	gtcagatata	ttctaattgac	cagaactggg	ttaaaaaaag	420
aaaatacaac	catgggaagg	aaatctttaa	tgaaaaacgc	atctcattgt	aggcattttt	480
gcctcatatt	ttactgggce	atgtttgttt	cctgggtactc	atgtattttt	tttttccaga	540
tctctttccc	caagttgcta	ttgtaagagt	attctgctgc	gtgtggatgc	agttatacac	600
attaaagcag	atctggagtc	tgaagtagct	ataaagcagc	tataaaacag	aaatacatgc	660
atagctgcag	aaaccatgat	aggtagagga	cttttctttt	ggttttgttt	tgttttgttt	720
tgttttgttt	ttggttttac	agagaagaga	tttttattac	aaagaaaaaa	attccagtga	780
attgtgcaga	aatgctgggt	tttacaccat	cctaaagaaa	aactttacaa	gggtgttttg	840
gagtagaaaa	aaggttataa	agttggaatc	ttaaattgta	aaattaacca	ttgagtgtca	900
aagttctaaa	agcagaactc	attttgtgca	atgaacataa	ggaaagacta	ctgtataggt	960
tttttttttt	ttctcctttt	aaatgaagaa	aagctttgct	taagggttgc	atacttttat	1020
tggagtaaat	ctgaatgatc	ctactccttt	ggagtaaaac	tagtgcttac	cagtttccaa	1080
ttgtatttag	cttctgggtg	gaatttgaaa	aaaaaagaaa	aaaaaaaaaa	aaaaacctaa	1140
ataaaatagg	tgaaagttcc	ctgactattc	aggtgaatac	acaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	a					1211

<210> 482
 <211> 820
 <212> DNA
 <213> Homo sapiens

<400> 482						
ggtctgcgcc	ggaagtgcac	gagctgccga	tgtgggtgctt	agtgattgcg	gtttcgggtcg	60
ctctcccgtg	tttcccgggc	tgggtatttt	cctcgcacca	tggcgcccaa	gggcaaagcg	120
ggcacgagag	ggaagaagca	gatatttgaa	gagaacagag	agactctgaa	gttctacctg	180
cggatcatat	tggggggcaa	tgccattttac	tgcttctgtga	cgttgggtctt	cttttactca	240
tctgcctcat	tttgggcctg	gttggccctg	ggcttttagtc	tggcagtgtg	tggggccagc	300
taccactcta	tgagctcgat	ggcacgagca	gcgttctctg	aggatggggc	cctgatggat	360
ggtggcatgg	acctcaacat	ggagcagggc	atggcagagc	accttaagga	tgtgatccta	420
ctgacagcca	tcgtgcaggt	gctcagctgc	ttctctctct	atgtctgggtc	cttctggctt	480
ctgggtccag	gccggggcct	ttacctcctg	tgggtgaatg	tgctggggccc	ctggtttact	540
gcagacagtg	gcaccccagc	accagagcac	aatgagaaac	ggcagcgccg	acaggagcgg	600

<400> 484
 ggcacgagcg gactgttccct gcgccatggt cctggatggc tgcgcccact tttgcgccc 60
 ttggcttggc tgggtgctccg ggcaccaaga gggggtgccc agacaccct gtattgtgct 120
 ctacaagagg gcatcgagcc cctcagtggg agatattttg ccaactgcca tgtggaagag 180
 gtgcctccag ctgcccagaga cgaccgggga gcccatcggc tatgggaggc cagcaagagg 240
 ctggcagggc ttgggcctgg ggaggatgct gaaccctgat aagaccccca gtctgaggac 300
 tcagaggccc catcttctct aagcaccctc caccctgagg agcccacagt ttctcaacct 360
 taccacagcc ctacagagctc accagatttg tctaagatga cgcaccgaat tcaggctaaa 420
 gttgagcctg agatccagct ctcctaacc ctaggccagg atgcttgcca tggcacttca 480
 tggctccttga aaacctcgga tgtgtgcgag gccatgccct ggacactgac gggttttgtga 540
 tcttgactcc gtggttactt tctggggccc ccaagctgtg ccctggacat ctcttttct 600
 ggttgaagga ataattgggtg attatttctt cctgagagt acagtacccc cagatggaga 660
 gataggggta tgctagacac tgtgcttctc ggaaatttgg atgtagtatt ttcaggcccc 720
 acccttattg attctgatca gctctggagc agaggcaggg agtttgcaat gtgatgact 780
 gccaacattg agaattagtg aactgacccc tttgcaaccg tctagctagg tagttaaatt 840
 acccccatgt taatgaagcg gaattaggct cccgagctaa gggactcgcc taggggtctca 900
 cagtgaatag gaggagggcc tgggatctga acccaagggc ctgaggccag ggccgactgc 960
 cgtaagatgg gtgctgagaa gtgagtcagg gcagggcagc tggatctcag gtgccccatg 1020
 ggagtaaggg gacgccttcc gggcggtatg agggctgggg tcatctgtat ctgaagcccc 1080
 tcggaataaa gcgcgttgac cgcccaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1140

<210> 485
 <211> 1162
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (1144)
 <223> n equals a,t,g, or c

<400> 485
 ggcacgagcc tgcattcctc tctctctctc tttctctctc gtcccttctc tttccctctc 60
 caaccaggag accatcatgt ctctctgect tctctctctc cctccaggag gagtcaggct 120
 gactgtgaaa gccatgagct tctctcctc tcccactcct cctctcctac tttcagatgg 180
 atttattcct tttttaaaaca atgaacatcg gaaatgagac tgtgggggtgt ggtttctctc 240
 tctctttttt ttttaatttt ctttggtggg tttttgagca acctcatgtc ccttcccag 300
 ggagcctttt aatttacctc ttagaactca agtggatggg aagtagagca ctatgtgtca 360
 gtatgctttg ttttctgaca cgattacaca gcgaggcttt aatgccattt gggtaggtga 420
 gcttctgcac ttctgttgtg ctgaactgta ttttctctc tcatctctc tttgtcttt 480
 tctcttttcc tctccttctc gccttcttct gctggcctcc ttttctctt ctttaccttc 540
 cttggattat ccttccagg tttcataata aatttatatt ttgtaaaagg attttgttgt 600
 accaggtttt gcatcctcac tgaatctgac tggctttatt tctctctcca aaatcagggt 660
 ttgttctcaa cactttccca tcatgtctag tcaactgttt ggttttggca ccatcagtat 720
 caaatgtaca aacggttctt gctaaccaac accagggtata tctgatgttc agatgagttc 780
 caataaaaaa aatttttttt tttttcaaaa ggtgtctttt tcttgagtgc tggagggtct 840
 ccaagcaagt ccagacagct ctgtgtggcc ccacactagt ctagctctca tctggccaaa 900
 gctgttatct catttgtgta atgggagtc ttaaggtaaa tttgggggtcc aaacttgag 960
 ggctttgggg gcaagaaagt tgggtgtgtga gttctgaggt tggaaatgag ttcagggtgc 1020
 ttcttccagg ggcagcatgg tccagtgagc acatgtaagt ttgggcagta gatcctctga 1080
 gcctactttc tcttctactc agtgaggatg ctgctttctg ggcagggtgat tgtgatgtga 1140
 aggnatgtaa gtcatagacg tt 1162

<210> 486
 <211> 989
 <212> DNA
 <213> Homo sapiens

<400> 486
 gacctctctg cccccatttc cactcctgct cttgggacac aggagactgg ttagatgaga 60

gtagaaagtt	tatTTTTgaa	cacccaggtg	tgggggtggct	gggagagacc	atctgatggc	120
tttgggagcc	aggccgcagg	gtttagcttg	gatctgttga	gtaggagacc	cttaaacaatg	180
gccaccctga	gcttaagagc	tggtcttggg	ttttgctttc	ttttgggatt	aaccgagtat	240
tttgtgggat	tccattttgat	cccttaactg	gctgaccagc	tataactcct	ggttatgttg	300
ttttagtgtt	gctccaggtg	tcgttggagg	agaagttgaa	ggtaacaagga	gtttgcagga	360
gggaaggttg	cagttaatga	gccttccttg	tgggaccgga	tggtgagggc	aggggcatct	420
ggcccgagct	ggactcgggc	catagatggg	aagtgggtcat	ttggaggtca	ccatctctct	480
gacaccctga	ccatagcacc	tgcacccttg	tgctgagctg	ccaggtcccc	ggcaccagcg	540
tctgtgcagc	tcaggtgttg	ctgagccgtg	gcctccgcag	ctctccatca	ggattttctca	600
agcttcatta	tgaattatct	ctgtgtgagc	tcacaacggg	gactgcagag	tcccaggtca	660
tctctcagat	cttctgaatc	aaacatatgg	tctgcagttg	ccgcgcagtg	ctttggccga	720
ttttctgaca	atcaaagtga	agaagtcttg	agctacggga	agttgggttg	aaggcatgat	780
ggggaaaaaca	tgattagttg	acagcttttc	ccagagagtt	tttagacaaa	ctcaaccttg	840
gtaaccttct	cagtgggctt	atgataagaa	ccttcaatgt	gccccaaaaat	aaaaaaagca	900
gcactccagg	tagttaatct	ttgtttaaaa	aacctttccc	cccaccaggt	cctgcaaaaca	960
aacaaacaaa	caaaaaaaaa	aaaaaaaaaa				989

<210> 487

<211> 1861

<212> DNA

<213> Homo sapiens

<400> 487

ggcagagct	tcttttggttt	aatgcaggat	caccagactc	tgtggcccaa	gacctgtttt	60
tgtgtagccc	ataagacata	ccttttctaag	tactatagct	gaaaaacatc	aaaagagtag	120
taatattttg	tgacatgtga	aaattatatg	aaattcaaat	ttctgtctgt	aaacctcact	180
ggaacacagc	catgctcatt	cgtttgtata	tggtctgtgg	ctgctttctc	cctacaacgg	240
tagaattgaa	cagttgcatc	agagacctta	tggcctgcta	ggccagaaat	gttaagccct	300
ttacagagaa	agcttgctgg	ctcctgttta	atgctttaac	tgccctactg	aaaggcagga	360
ggttgaaaaa	atgatggtag	tcaaaaggaa	tgcatgaaat	cctgttatct	tctgttagct	420
gattgcaagt	agtacacagg	atataatttga	gacatctctt	ttcctatctc	ccaccaaaagg	480
ataattcagg	cggatctcag	tgcacaggca	caggcatttg	cctcattctt	gttttgtctg	540
ttttgaattt	agttatggga	atatttttaat	atctctcaaa	aataggggat	ctgggtgtgag	600
tcagaatgat	tatagaacat	gcttgccctg	agaacaggaa	atgcgggac	cactcctggg	660
gtgctgttag	ctgaaggacg	tcagaactgt	cctttaacct	ccctgcaggt	ctctaaatgg	720
taggattgtt	tggggattac	actagatcat	ctctaggcac	cgttcagctc	agtagagaca	780
ttgctgcatg	gtggaaggag	tgacctcagt	gtgaatcctg	gttctgtccc	tttctgcccc	840
ggagaccttg	agcagcttat	ctaaatgctg	tgtgcctttg	ttagctcatc	tgaaaatgtg	900
gctgtaagaa	tgacctcatg	agaatggact	gagatcatat	tcttaaaact	cttggcacta	960
ataggtat	aatctactat	aactgtgaaa	attatgtctg	tgaactcttt	tttttttttt	1020
tttttgagac	agagcaagac	tccgcctcaa	aaaaaaaaaa	aaaaagtacc	ttggggattt	1080
ttctgttttt	gtacttacag	gcctatctca	tactttttta	tggctgctta	gtatgccata	1140
gaatagagaa	aacacagttt	atttaactaa	tcctactaaa	tggacattta	tttctaattt	1200
tcactcta	agtcaaaaaa	tgaatttaga	aaatgcaaat	aatttgtgtt	tttaggggtct	1260
ttcatttctt	atthagttat	ataattat	tagcttttaa	aaaagcttat	taggggtggga	1320
agtgcctcac	tgatactgta	atgttagaac	tacactgaaa	actttgtttc	agaagaaaaa	1380
gttgaatgta	agttctctgt	gactgcgga	ttcattagca	ttgtgtcttc	agggctttct	1440
ttttaggtat	gattataaac	caaaagcact	ataagtgggt	acataatttt	cttacagttt	1500
gtatacctca	ttcaaaagaa	gcatacatct	ctaaggatta	gaactagaac	cataagccag	1560
gtgtggtggc	tcacacttgt	aatcccagca	ctttggtagg	ctgaggtggg	aggatcattt	1620
gcacccagga	gtcagagacc	agcctgggta	acatagggag	accccatctc	tacaaaaaaa	1680
aaatacaaaa	attagccggg	catgctggct	catggctgtg	gtcccagcta	cttggggaggc	1740
tgcggtggga	ggattgcttg	agcctgggag	gtcaaggctg	cagtgcagctg	tgattgtgcc	1800
actgcactcc	agcccaggta	atagagcgag	accctatctc	aaaaaaaaaa	aaaaaaaaaa	1860
a						1861

<210> 488

<211> 1187

<212> DNA

<213> Homo sapiens

T.D. 60-2800560

<400> 488

gagatgggtc	tcttggtatt	agaaaggaga	gcagacgcct	agagtctctga	cctcttgggc	60
ctcccctaaa	caaaaagcat	agccccttca	ctaccctagt	aacaagtatg	acctgttgcc	120
tggttaggtc	aggtgtacct	gtgtgtctct	ctctgtgatg	tatgtgggct	tggtgtccac	180
atcaatgtgc	gtgaatactc	ctaccacacag	actgctactg	tgccaatata	gaggytcata	240
agaaagataa	aagagaacca	gcagaacccc	aggttctgcc	tctccttccct	ccctttgccc	300
agataaaggt	gtacagtgtt	tgtgggtgagg	ctgctggaca	ctgctgtttt	gggctttcta	360
gagagaatgc	aaacatgcaa	aaacagtgtg	gtagtgtagg	cagaacaaga	tctagaatca	420
gaagacctgg	agtcgaatct	cagctccaac	accactgga	tgaacgtgga	caagctgctt	480
gatctctcag	atcctcgatt	tcttcatctg	taagatggaa	acaatatgtg	tcttttctaa	540
ggggaaagat	caaatgacat	catgtatgtg	aaaatgctta	gaaatgggtg	atgatgatga	600
tgatgatact	gattattagg	gtatctaata	aagttgggga	aagaacaaaa	tccccccctc	660
acaccctatt	gcaccaccag	ccttctccct	ccctgctcaa	ttatacccat	gttataggga	720
aggaaatagg	gaagaaactt	gtctaaggtc	acatggatgt	tcgcaacaat	tgggatgcag	780
aacttgatct	gactcccagg	ccaggtttga	ttttgatttg	cagtggcaga	gaggactaat	840
tttttactag	gttctgagcc	ctgtactgaa	ctctggattg	ccctgtactt	gggtggtgga	900
tacagttcag	cagtttttag	catatacacg	aatttgtgca	gccayaacca	ctatctaatt	960
ctagaacatt	tttatcaccc	ccaaaagaaa	tcatgtaccc	atgtgcagtc	acttgccatt	1020
ccctcttctc	cccagccctg	ggaaaccact	gacctacctt	atatctctat	gaatttgcct	1080
aatctggaca	tttcatataa	atgcaattgt	acatgtgaaa	aaaaaaaaaa	aaaaaactcg	1140
agggggggcc	cgagtaccca	attggcccta	cgaagaggcg	aacagag		1187

<210> 489

<211> 884

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (873)

<223> n equals a,t,g, or c

<400> 489

ggccgacgcc	tggtgtgtgg	agctgccccca	ccgccacccc	gtgggcgagt	ggatcaagaa	60
gaaaaaacct	ggcccagagag	tcgaagggcc	gccccaggcc	aacagaaatc	acccggcctt	120
acctctgtcc	ccacccttac	cttccccccac	ataccgcccc	ctgcttgggt	tcccacccca	180
gcgcttgccg	ctgctcccgc	tectgtcccc	acagcctcct	cctcccattc	tccatcacca	240
gggaatgcc	cggttcccac	agggtccccc	agatgcctgt	ttttcctcag	accatacttt	300
ccagtcggat	caattctatt	gccattcaga	tgtcccccctca	tcagcccatg	caggtttctt	360
cgtcgaagac	aatttttatgg	ttgggtccctca	gctgcctatg	cccttcttcc	ccacaccccg	420
ttatcagcgg	cctgccccag	tggtacatag	gggttttggc	aggtatcgtc	cccgtggccc	480
ctatacgccc	tggggacagc	ggcctcgacc	ttcaaagaga	agggccccag	ccaatcctga	540
gccaaggcct	caatagacgg	acctaggcct	tatttctctc	ttatgaacat	ggattggaca	600
gatctgacac	ttcctttcca	ttgcttggcc	tgaacagact	gaccttgta	acttaagcct	660
ggagtccatg	cctcgtcttc	cttttgttca	ttgctgttac	caagaaagcc	aaggaagagc	720
agcctgactc	attcttcttg	gctgcagcct	cttccccact	tcctgggagt	gacccagcgt	780
tattcctgcc	tcctcactcc	tattctcttt	gcctttgtgt	aaaaataaaa	tggaataaaa	840
caagttgcac	agaaaaaaa	aaaaaaaaaa	aancccaagg	gggg		884

<210> 490

<211> 1652

<212> DNA

<213> Homo sapiens

<400> 490

gggcagcttc	tggggacagc	cacaaggagg	gtaccagggg	tccccgccc	ctgcctacag	60
acatgcgcca	gatcagccag	gacttttagcg	agctaagcac	ccagctgacg	ggtgtggccc	120
gggacctgca	ggaggagatg	ctgccaggaa	gctctgagga	ttggctggaa	ccccagggg	180
cagttgggcg	accagccaca	gagcccccca	gggagggcac	aaccgagggg	gatgaggagg	240
atgccacgga	ggcatggcgc	ctgcaccaga	agcatgtctt	tgtgctgagt	gaggcaggga	300
agcctgtgta	ctcccgcctat	gggtctgagg	aggcactttc	cagcactatg	ggtgttatgg	360

095003-09201
T02T60-2300560

tggccctggt	gtccttcctg	gaggcagaca	agaacgccat	ccgctccatc	catgcagatg	420
gctacaaggt	agtattcgtg	cgccggagcc	cgctggtgct	agtggcggtg	gctcgtacgc	480
ggcagtcggc	acaagagctg	gcgcaggagc	tgctctacat	ctactaccag	atcctaagcc	540
ttcttaccgg	tgcgcagctg	agccacatct	tccagcagaa	gcagaactat	gatttgcggc	600
gcctactctc	gggctcagag	cgcatacccg	acaacctgct	gcagctcatg	gcacgagacc	660
ccagcttcct	gatgggggcg	gcacggtgcc	tgcccctggc	ggcggccctg	cgcgacactg	720
tgagcgccag	cctgcagcag	gcgcgtgcgc	gcagcctggt	cttctccatc	ctgctggccc	780
gcaaccagct	cgtggcactc	gtgcgcgcaa	aggaccaatt	tctgcacccc	atcgacctgc	840
acctgctctt	caacctcatt	agttcctcct	cgctcctttcg	cgagggcgag	gcctggacgc	900
ccgtgtgcct	gccc aaattc	aacgcagccg	gcttcttcca	cgcacacatc	tcttacctag	960
agcctgacac	tgacctctgc	ctgctgcttg	tctccactga	ccgtgaggac	ttctttgcag	1020
tctctgactg	ccgcgcgcgc	ttccaggagc	gccttcgcaa	gcgcggagcc	cacctggccc	1080
tgcgagaggc	actgcgcaca	ccctactaca	gcgttgccca	agtgggcata	cctgacctgc	1140
gtcacttcct	ctataagtca	aagagctcgg	gactcttcac	cagccctgag	attgaggccc	1200
catacaccag	tgaagaggag	caggagcggc	tgctgggcct	ctaccagtac	ttgcacagtc	1260
gtgcccacaa	tgctctctgc	ccactcaaga	ccatttacta	cacgggcccc	aacgagaacc	1320
tcctggcctg	ggtgacaggc	gccttttgagc	tctacatgtg	ttacagcccc	ctggggacca	1380
aggcgctcagc	cgtcagtgcc	atccataagc	tgatgcgctg	gatccgcaaa	gaggaagacc	1440
gcctcttcat	tctcacgccc	ctcacctatt	gatgggaatg	tgtgcgggct	cagccttcct	1500
ggacacacta	ggtgtgggaa	gccataggag	cctccagatg	ggggctggcc	tctcttgccc	1560
agccagcggg	cagggactgt	gggttggtga	atgcattaaa	gtgctttggg	gaagacaaaa	1620
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aa			1652

<210> 491

<211> 1460

<212> DNA

<213> Homo sapiens

<400> 491

acgcgtccgc	gcagaaccag	gaaagtaacg	gctacagaca	gtgagaaata	gtttcgctcg	60
ccggctagaa	aaactctgtc	ggtaccaacc	ccagagcggt	gagagcagcc	cacctccacg	120
cttccttaac	ggagaggtgc	aggactcaga	cttcaccagc	ccactcggtc	ccagccttgt	180
acgcaaagag	acgtcaagga	cgcgctctcc	cgcgtccagg	cagccccagc	ttgctggcct	240
gcctgcccgc	ctgcgtgcag	cactcggccg	gcgtgcagca	tgaccctgtg	gaacggcgta	300
ctgccttttt	acccccagcc	ccggcatgcc	gcaggcttca	gcgttccact	gctcatcggt	360
attctagtgt	ttttggctct	agcagcaagc	ttcctgctca	tcttgccggg	gatccgtggc	420
cactcgcgct	ggtttttggt	ggtgagagtt	cttctcagtc	tgttcatagg	cgcagaaatt	480
gtggctgtgc	acttcagtg	agaatggttc	gtgggtacag	tgaacaccaa	cacatcctac	540
aaagccttca	gcgcagcgcg	cgttacagcc	cgtgtcggtc	tgctcgtggg	cctggagggc	600
attaatatta	cactcacagg	gaccccagtg	catcagctga	acgagaccat	tgactacaac	660
gagcagttca	cctggcgtct	gaaagagaat	tacgccgcgg	agtacgcgaa	cgcactggag	720
aaggggctgc	cggacccagt	gctctacctg	gcggagaaat	tcacaccgag	tagcccttgc	780
ggcctgtacc	accagtacca	cctggcgggg	cactacgcct	cggccacgct	atgggtggcg	840
ttctgcttct	ggctcctctc	caacgtgctg	ctctccacgc	cggccccgct	ctacggaggc	900
ctggcactgc	tgaccaccgg	agccttcgcg	ctcttcgggg	tcttcgcctt	ggcctccatc	960
tctagcgtgc	cgctctgccc	gctccgccta	ggctcctccg	cgctcaccac	tcagtacggc	1020
gccgcctttc	gggtcacgct	ggcaaccggc	gtcctgtgcc	tcttctctcc	aggggcccgtg	1080
gtgagtctcc	agtatgttcg	gcccagcgct	cttcgcaccc	ttctggacca	aagcgccaag	1140
gactgcaagc	cagaagaggg	ggggctcacc	tcttatcctg	gggacccact	gcacaagcag	1200
gccgctttcc	cagactttaa	aatgtatcac	cactaacctg	tgagggggac	ccaatctgga	1260
ctccttcccc	gccttggggac	atcgcaggcc	gggaagcagt	gcccggccagg	cctggggccag	1320
gagagctcca	ggaagggcac	tgagcgctgc	tggcgcgagg	cctcggacat	ccgcaggcac	1380
cagggaaagt	ctcctggggc	gatctgtaaa	taaacctttt	tttcttttgt	tttttaaaaa	1440
aaaaaaaaaa	aaaaaaaaaa					1460

<210> 492

<211> 2069

<212> DNA

<213> Homo sapiens

<400> 492

0950082-09104

ggcacgagag	gaggccaact	tactgcttcc	tgaactgggc	agtgccttct	atgacatggc	60
caggtgagtt	caaccagcaa	ggccaggagg	gaggtgggag	gaggtcagag	ggaaagggca	120
tctgtgtgga	cagtcaccag	gccctgctcc	caacccttgc	ccttcttggc	ctcagccaag	180
aaaaggagat	acaggtatgg	ttaacaagga	aaatgactca	ctgctccaaa	tcccagatgc	240
cttcaggtaa	tccctacccc	tatcttatca	atgcactcag	aggtcctgcc	tttaactggc	300
ttctatgttg	ttctagcacc	atcttctgca	gagcccaaat	tgccctgctt	ccccctcttc	360
ctgcctctac	cccttcccca	accaccaggt	aggtacctag	ggtcctccgg	ggaggaaggg	420
aggtgaccat	ggcccccagg	gataggagca	gagagaagac	tgggatccag	catccatctg	480
gctacaactg	aaatgctttc	cctcttccct	gacttccctg	ggtaaccctt	aggggaagggg	540
acctatagag	gtgggggttt	caggtatcag	attgtccctt	tctgccttcc	cttttatctc	600
caggttcaag	ggggcaggca	caggggaagag	agatttgatc	atctagtccc	ggttttgcct	660
ggatgtgaga	tgggctcagg	gcagggaggg	ggtgatgctg	tcatecttct	cggctggagc	720
aggaagatga	aggacgatgt	cagactcatt	ttcagcctca	ttaggcagca	gacggagatg	780
gagggaggag	agcaggaggc	tgggggatgg	gctctgact	gcagagacca	gcagggacta	840
aagaagagag	gacatgggga	actggaaaaa	taagccttcc	aggattgtgg	ggagaaagac	900
gctgtgggag	aggccaggat	gctgcattag	gcacaggata	acctgggaac	ccaggcacat	960
gggtcctgct	ctccgaagtc	tgcaagtcaa	gaaggggaaca	gagcacgccg	accctctccc	1020
tttccctctc	gtctctctta	gtggctttac	agtgggtacc	ctgtcagaaa	ccagcactgg	1080
gggccttgc	acccccacat	ggaaggagtg	tcctatctgt	aaggagcgct	ttcctgctga	1140
gagtgacaag	gatgcccttg	aggaccacat	ggatggacac	ttctttttca	gcaccaggga	1200
ccccttcacc	tttgagtgat	cttactcctt	cgtacatgca	caaatacaca	ctcatgcaca	1260
cacacactca	cacacatgca	tacacttagg	tttcatgccc	atcttctatc	acactgggct	1320
ccatgatatt	ctgttcccta	agaactgctt	ctgtgtgccc	tgttttcatc	ccaagatttc	1380
tcacttcata	ctctcctacc	tggtcttttt	gtcccaggga	ggggctctgt	tcggaagcag	1440
tggctgaatt	tatcccctga	aagtggtttt	ggaggaaccg	ggatggagga	ggccttcccc	1500
tgtgggaata	gaatcgtcca	ctcctagccc	tgggtgcttc	tgatacacag	ccactgcaca	1560
cacacactca	cactcacact	cccttgtctg	atgccccaaa	gccaattcct	ggggcaccct	1620
accctctctt	atctggagtt	tccgttgggt	tacctgagtt	ttctctgggg	tctgcacaga	1680
ggcagcagca	tggacatcat	ggcctctcag	gtcccttttg	gttctcagtt	tcattgggtc	1740
ctctttctgt	tccccatttg	acttctgtgc	cccaccttag	ccttttccat	aaccttaagg	1800
atccagtttg	gaggggtttt	ttgtattttt	gaggattcct	gtattctgta	tcctctcctc	1860
gcactctctc	acatggaaaag	aaataatgta	tttgtgcctt	ctgtgaggaa	tgggggggaa	1920
aagtggctcc	aggtatcccc	atttccaagg	ccccctccc	tctccaggtc	cccccacagc	1980
aataaaaagct	tccccctgat	atccatccct	ttgtagtttg	aacaaatata	tttatatgat	2040
atgtaaaaaa	aaaaaaaaaa	aaaaaaaaaa				2069

<210> 493

<211> 1105

<212> DNA

<213> Homo sapiens

<400> 493

ggcacgagca	aaggttcttt	gtaatttgaa	gaaaaatttt	gttttagtta	tctgctaaga	60
gggcatgggt	ttctttgtac	ttctcttccc	tacgtccaga	ttagcttaag	caatagaagg	120
aactgaaaag	agcagaaaaca	gttaagtgtt	aattaagaag	cacttacagt	cttaagaagt	180
tactcgggga	cttaacgtaa	agttctatga	tacatgctat	taggaactta	ttttaagggtg	240
taccttata	tcaagtgttt	ttacattttc	ttatataaaa	gtaggaagat	gcattttccat	300
ttacaaaaaa	gctgacccaa	agacataata	aaaatcatct	catatgacca	taaacccttt	360
aaaattagaa	tttaaaagag	taactgtttt	tcagagggtat	tttggatact	ttggatagaa	420
tttcatgggt	aaattctgtg	cggagtatcc	aatggtttta	aaaatctaga	agagaaggat	480
tttccaaaag	ggtaccagcc	ctgccctcca	ggatatgggtg	gccaggatat	ggtgggttgg	540
ccaaattatc	cattaggctc	caaattcctt	aaaacctgga	attagttttt	tgggtttgtt	600
gccaaaagat	ttgaccagag	gcagaacttt	cctttggaag	aacaaagaac	aggttttctg	660
tagctgagta	gggaagagga	aatagcaaca	ttgactttac	tgagacactg	gaacttgaat	720
agagtgtaa	tgtaaaatat	taagatgtat	ttaagaaaat	aattctcaag	gctcgttgca	780
tagagaagag	ggtaagggtc	tgggaatctt	aaattaatgg	tcttttacca	tcatacttac	840
cgatgtgttc	cttgatacac	acaattgtgg	acttattttt	aaagtttaca	cactgttagc	900
atttaactct	aggtcctata	tctacagata	ggtatgaggc	tacatatctg	ccattgttag	960
tcccaagaat	gctctaaagc	agggctgtcc	caatgttttg	gcttccctgg	gccactttgg	1020
aggaagaata	attgtcttgg	gccacacaaa	aattcgctaa	cacaaacaat	atagctaata	1080
aactttaaaa	aaaaaaaaaa	aaaaa				1105

<210> 494
 <211> 1435
 <212> DNA
 <213> Homo sapiens

<400> 494
 gcaattttatt taacaaatac ttatctagta ctatgtgccc ggcgctgtag acactgccat 60
 gttttatctc attcaatatt cacagtgact gccagtgaa tggattgcc tccatcctct 120
 gagaaggtaa agagcctatc ccagacccca cgagtggagg cgtcagggag gggttcttgg 180
 caggagatgg gtcttgtaga aaggcttctg ytttgcttta ctacggcct gtggcagttt 240
 gctcagacag ctcccatcag gacaccattg gcagcttttg catgacctg cctcccaggg 300
 tcttctcgcg tttttcctta agttgcctta ttctttggtt gtttccctac ttgtttttgt 360
 tagactgtgg gaggaagaaa tccatttcaa atctgctgaa acctgttacc aagcaacagc 420
 agtgattaaa agcaacctga tgagttagta aagaattagg gtttcagacc tgtagttaat 480
 gatggctctc gtctccctgc tgccttgcac tcccttccct tccgttccct gctgggtgaa 540
 ggagggtctg ctgcattttg gaagttaagg gaaccaataa ggtgactctt ttgcagattg 600
 gaatatgggtg ctcagccagc catatggaag cactgtcctg gcgtgatctg ccctgggctg 660
 ttggctctct gagtgctgtc ttgggaggag cactgccctt cagaacagaa gagatggctt 720
 ccagtcctct ctcccccttc tcccagtcct tctgaggctg cttgttgggt attgggcgtg 780
 ctgtgtacta actcactccc gtctcttctg tcattatctg aaatgcatcc ccttttgcag 840
 aaagggtctc aacggagcct tcagttctgc tctctgcat agccgtagct cagatcctag 900
 ctgagatgt cttgtctggg aagggcaaaa catggtcccc agtgtagcat tttcactggg 960
 ttgattatct cagtgggtga tcactatca ccttctgtgt gtgactttgt gaattatctg 1020
 cctgagtgcc acttcccttc caccctaata actgcaggct caggagcaa gaaataaaat 1080
 catgaaatgc attccaaata aaattacctt ttggctgggt gcagtggtc acacctgtaa 1140
 tctgagcact ttgggagggt gaggtgggtg gatcgcttga ggtcaggagt tcaagaccag 1200
 cctggccaac atggcaaaac cccatctcta caaaaaatac aacagcaaaa aaatcagcca 1260
 ggctagctg tgtgcgccta taatcccagc tacttgggag ggaggctgag gcacaagaat 1320
 tgcttgaacc caggaggtgg aagttcagtg agccgagatc gcaccctgc actccagcct 1380
 gagcaacaga gtgagactct gtctcaaaaa taaaaaaaaa aaaaaaaaaa tcgag 1435

<210> 495
 <211> 3342
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2005)
 <223> n equals a,t,g, or c

<400> 495
 gcggctgtgt gtcgccggag ccgaagcgcg caggcccgtc ccggtggccg gggagcgggc 60
 ggggtggggg gccatgtggt tcatgtacct gctgagctgg ctgtcgctct tcatccaggt 120
 ggcttctc acgctggctg tcgcggtggt actctattac ctggcagaac tgatagaaga 180
 atacacagt gccaccagca ggatcataaa atacatgatc tggttctcca ccgctgtact 240
 gattggcctc tacgtctttg agcgcttccc caccagcatg attggagtgg gcctattcac 300
 caacctcgtc tactttggcc tctccagac ctcccccttc atcatgctga cctcgcctaa 360
 cttcatcctg tcgtgtggac tagtgggtgg gaatcattac ctagcatttc agttttttgc 420
 agaagaatat tatcccttct cagaggtcct ggcctatttc actttctgcc tgtggataat 480
 tccgtttgcg ttttttgtgt cactttcggc cggggagaaac gtccctgccct ctaccatgca 540
 gccaggagat gatgtcgtct ccaattatct caccaaaagg aagcggggca aacgcttagg 600
 gatcctgggt gtcttctcct tcatcaaaga ggccattcta cccagtcgtc agaagatata 660
 ctgaccccca tgcaggcagg atgtgggggg caagatcagg agagtcaggc ccctgggcct 720
 ctatgccagg tggggaccag aagtcgggaa ggcacctacc acctgccctg gctttcttcc 780
 cctcaactct ggagccccat cccacccctc cttggggggc tcagcttggc tcagatctga 840
 tgcttcaaga ggctgtaacc tcagagggga ccaaggaggg tggcagagcc tgcttagcca 900
 ggaggccgag gtccctcagt cctccccctg cccttccaag gtgggtcagg aggttctggc 960
 cccgctgggg caggcagggc agggctctgt aagcttaaga gcagatggtg acaagttctc 1020
 tgggcagggt gccatgggga ggggccatgg cttggcatgt ccaacagaaa tagtttttgc 1080

0050032.091201

```

tggtgaacgg tgatttctgt ccaagtgcag atttccgttt gaataaagct tcgcttctag 1140
gtggcactgt ttgccttaat accctgacag ttcactctcc tttcttctctg ctaaccttct 1200
gctctggact ggactcactt ttctgctcca gggactcctt ttctgggttt gggctcttgc 1260
cttcccaagg gactgttctt gtggccctta atgggaaggg ggcaggggtg aggagctgag 1320
cctgctcaag gagtgggaag tggggctata ggcagcctct ctgatgcact ctcttccatc 1380
tctttcccca aggctccgtg actgacaaac tgggagtagg agaggggaca atttaggact 1440
gggctagatt ttcagaagaa catctacaat atcctattta taaatcttcc tctgggaaaa 1500
ggagtgggtt ctggctgaat actatcttag gctcaaggag aaacaaaata aaaattagct 1560
tccaggcagc ctgtttttta agaaatggga ctaatgggag aagctgtttg tcaactctaag 1620
agcatccaag ccctggcccc tctgtgcact cttggctcct ggggagatat atctgccttc 1680
taagaaggca ggccagggtc tgggcacaga cctgcatttg ttgaccttgc actccaacta 1740
tagtgcttg caagtgtc acagtacata tttggaatga agtccctatg agagccattt 1800
ctggccatgt tctatacctc aaagtggagc tggcagggtac agagatgaac tgtacacatg 1860
tgatacatct aagccactgg aaaaaccctc gtgcttgama atatttcctc tatatcatgc 1920
ctggagtctc atcatagccc ttcatttcct tggctttagc atttaccttc tcttaagaat 1980
accagctttc ccctttccct gaganggaag agcacatgtt ggtctcctct tagtgtgaac 2040
gagattgcca ggcccttttc tcctatgcac accaggatag acaaggcagg ggatactggc 2100
agcctgcac atcctcccat tgggctgaca gctggcccta ctttccctcc tctgctgctt 2160
ggtccctcac cttgatgatg tggcttcgcc ccctccactc tactgccagt gttctcccag 2220
gggttgctaa atccagcaga cccctttcct gtcttactag atctgggcag catttgacat 2280
ggctgatcac cccttgcttc ttggatggca cttccctggc acctctgtgg ctagtgttcc 2340
tacctccctg gctgttccct tcaggcttcc gtgcaggctt ctccacttgc ccatgcacag 2400
tagggctctt cagggttctg ctgtgggctc cctagggaag cccatccatc tggatgggtt 2460
caaggatggg gaggaattta gaggtgacct ccagcccaa catccttctc gatcacctga 2520
accacagttt tgctgccttc taggtgcaca gacaattcag gtccatggcc cagatgggtac 2580
ttgctgtctt ctgcaaacct gccccttctg ggtacttccc ttgacccga gatcactcag 2640
gagccagaca ggaaacttat tctattcctg ttttctctt ctgcccacca catccaatct 2700
ctcaaaacgg tcagggtctac cttaacatct cttgatttga gccactccca ctgtcatcag 2760
ctttcacctg gattatcgtg acagcctcct actgcttctc tatcatgtgg ccagagctat 2820
cttcctaaaa tgcatgtcat agttgatcaa gtcactctct ggcctaaaac cttccttggc 2880
tccctgctgc cctcaggata aagtctggac ccctcagcat ggcttgtgag actcatggtg 2940
tccttgtccc tgctcacctc tctgggtctc tcaacttgct tcttgcattc tgggtcccag 3000
cctcctgtat ccagagatgc agtggtctc cattgccact ctgattcctc ctttcttttg 3060
gtcacagaga aagggtactt tctctgtcaa atctcaact agacttgact tcctccaagg 3120
agctttggct atactctctc ctcccgacct ccaccctggc atactacaca gatcactctg 3180
ggctcacttg cctgccta at ggcatctcc ccagtagact gtaagctcct tgagggcaag 3240
gattgtgttg gaatttttgt attaacagtg cctggcttgg tgccctggc ac tagaaagca 3300
ctcaataaat gtttgtttta tgaaaaaaaa aaaaaaaaaa aa 3342

```

<210> 496
 <211> 1008
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (21)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (895)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (928)
 <223> n equals a,t,g, or c

<220>
 <221> SITE

<222> (960)
<223> n equals a,t,g, or c

<400> 496
gaaaccgacc taaggggatt ntcccatttg gcccgtccta ccctaaagtc accacctgct 60
gctttttttg agcgcttacc agtgaccaag aggaacagaa cacagagcag cctggcagtg 120
tccaagcaac aagcctccgc tctctcttcc tgcaccctgg ggctcctgaa actcacatgg 180
gtaaaaaaga tacagtaaag acataaatac cacatttgac aaatggaaaa aaaggagtgt 240
ccagaaaaga gtagcagcag tgaggaagag ctgccgagac gggatatacag ggagctaccc 300
tgtgtttctg agaccctctg tgacatctca cattttttcc aagaagatga tgagacagag 360
gcagagccat tattgttccg tgctgttcct gagtgtaaac tatctrgggg ggacattccc 420
agtgtatcag aagagcagga atcttcagag ggacaagatt caggagacat ttgctcagaa 480
gagaatcaaa tagtttcctc ttatgcttct aaagtctgtt ttgagatcga rgaagattat 540
aaaaatcgtc agtttctggg gcctgaagga aatgtggatg tygagttgat tgataagagc 600
acaaacagat acagcgtttg gttccccact gctggctggg atctgtgggc agccacaggc 660
ctcggcttcc tggtaagggg tgaggtcaca gtgacgattg cgtttggttc ctggagtcag 720
cacctggccc tggacctgca gcaccatgaa cagtggctgg tgggcggccc yttgtttgat 780
gtcactgcag agccagagga ggctgtcgcc gaaatccacc tccccactt catctccctc 840
caagcaggtg aggtggacgt ctcctggttt ctcgttgccc attttaagaa tgaanggatg 900
gtcctggagc atccagcccc ggtggagnct ttctatgctg tcctggaaaa gccccagctn 960
ctctctgatg ggcacacctg ctgcccagtc ccatgggact cggtcttc 1008

<210> 497
<211> 1054
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (89)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (149)
<223> n equals a,t,g, or c

<400> 497
cgcaattaat gtgagttagc ttcactcatt aggcacccca ggcctttaca ctttatgctt 60
ccggctcgta tgttgtgtgg aattgtganc ggataacaat ttcacacagg aaacagctat 120
gaccatgatt acgccaagct ctaatacgn cactataggg gaaagctggg acgctgcag 180
gtaccgggtc ggaattcccc ggctcgacca cgcgtccgag tgacactact gacttggtc 240
taccacctga aatgccgatt ttgattgatt tccatgctct gaaagacatc cttgggcccc 300
cgatgtatga aatggaggtg attcattctt tttatttctt tttgctccag tcaatgaaag 360
gaacacttta ttgaggcccc agggccgtag ggcctgggca ggaggctgcc ctttggggaa 420
ggaatagcct tattcgacct tcttttttgg acgcagggtg ttggtgtggc cgcacttctt 480
gcagcagttg actgcatggg ggcgcaggcg agcacagctc ttgtggcaca tcacttctt 540
gcagttgtat ttctgggcaa ggtggcagag ggaaggctcc gtaatgccac ctcacaggca 600
cagcatcagg cgcagggtg actctttctg gatgtgttag tctaagagtg tgtggccatc 660
cttcagctgt ttgccctcaa atatcagaca ctgctgggtc ggtaagatgc cctacctgtc 720
ttgaattttg gctttgacat tctcagtggt atcactgggc tcgacctcaa ggggtgatgg 780
ctggcctgtg agggctcttca caaagatcca catctcagcg tctgcagctt ggccagctc 840
actccattct catttttttg ttggtactca ctggtgtact cagggtggtg cttaacagag 900
aagtaaaatt ggatgtttcc agaggctgaa ttttgcttca agatggaamc tttatttcta 960
aaaaaaaaaa aaaaaaaaaa aaaaggcgcg ccgctctaga ggatccaagc ttacgtacgc 1020
gtgcatgcca agtcataact cgtctatagg aatg 1054

<210> 498
<211> 876
<212> DNA
<213> Homo sapiens

<400> 498
cccgggtcga cccacgcgtc cgcccacgcg tccgcggacg cgtgggcttc tgttacatgg 60
agctcaatgg acgtgcccag gaatgctttt ggctgttatt ttgcagttaa tacctcctgt 120
aactaaagca tttgtttatg agttgacttg agagaagggc tgatctcaga gccgctttga 180
gctaagttgg attagtcaca ctaggaagtt aattccacac ctttcgtcta agtctcagta 240
ttgaggcctc tccagttctc atgcaccctg atcttagggg tagaatactt gaccctgata 300
cctgcaccat gcttcatggg tcctgagctc tttctcctgt ttcatttgag cctccaaact 360
acatatttgg tcatattgcc tgcctacccc atgcctgctg cagaaatatt catccagggt 420
aaccttgata tacacagaga tgggtcttgg gaattgtgaa tgtatgtact gtattgtcat 480
caaggatact gtcccttatt tgaaggcatc taaagagaaa ctgttttcag atccaagtgc 540
tcagatctaa agcctctgca acaagtcagg tgggtggcat gttcccttc tagttttggc 600
tgacaggaag ctcagttcag taccataact acagaacctg tcatctgtat tttttgttct 660
caccctgttt ttgttatatt gtttctgggt ttttatattg aggtatgttt tagatatagt 720
ttacaaaaat aaaacgcaca gattttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaatt 780
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaccaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa aaaaaggggc gccgct 876

<210> 499
<211> 1827
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (601)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (918)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1825)
<223> n equals a,t,g, or c

<400> 499
gaattcggca cgagattttat tattattttaa ctctgcagtg gagcaaattgt gagtaacatt 60
tgaatgaaaa taaattttca gcttatttac atgaggtaaat aaacttgact ttatcaagta 120
attgtgggag tggggaataa acctcatctg gggatgggaa ataaacacca ctataaagaa 180
accactaaga tttgaatgcc ttgcttggtt taagtttggt gatgcaggta ttgcattgat 240
tatgcatcag ggaactggaa accaaggcat tcgttctttt aagaaaatag attcttaagc 300
ataggagtct catgttttaa gaactatttc taagttcaac taagatcgag tttttctgtc 360
tctattggca aktwtyaaga ggcataaact ttaaagaaaa agggaaaatg tgataaatta 420
atggaaataga ctccataggc ttttattcca acttttatat gatgcaagtc tatgtgcttc 480
tgtctgactc acttatttct gtwatcaaga tgaactagtg aagggaattt ctctctcaat 540
gctaaattaa ttacatgcat tggggatagt catccagaga gaggggaagg gaccttctga 600
ngttgtcacy cagwaaataa ttgcctgagc tgagaatggc atgtgggtca cagaattggg 660
gtttctggat ttaggaaata ctctctatct tttttccact cctgctggct aagccaagaa 720
tggcaaatat gtgttcattc tgctgcattc cctccaggc ccataaggac gttggcaatc 780
cttcatagcc ttctcacagg cggaacctgg attaatTTaa gaaccctttt gtgcctggct 840
tttcaggaag ccagtaccaa tcaattgggtg ctggcatgaa gcatgaaact atttgccatc 900
tctgagttat gccagtanaa ttggcatgct tctggtttcc atgcatacca ctacctttca 960
tgggttttat tgtgcacaaa ctttgcattc ctttagaatg atatacctac gcaggatat 1020
aatttgtcac cctgatccaa aaagggkaag awgccmagac catagtggag ctcttattag 1080
aaagctcttg gcttcagttt ttgacacttc cctgactctt tatattcacg ttatcataag 1140
ctgccaaatt cttgactcta taaattgccc tttaacagct tattaggaat tccaactact 1200
gtattctagc accaactaca gcatattcag agcctctgca attcctaaaa gtacacttaa 1260
accaaataca tgggccagcc tgcattctttt aaaatacatt ttatgccttt acacttcgta 1320

ttaagttggg	tgagaattat	gttttaaatct	acactctatc	ttgaattgtc	ttacatttta	1380
tctgtcttac	caggggttcag	gttcttatcc	aaaatgaagt	taaatttttt	tctcttagat	1440
agttgcattc	ctgaagcaat	tagaacagca	tgatcccttg	gtgtttattg	acattctcat	1500
cattgtctca	ttggcttttag	gtttaacatg	cctcatgatg	acaacaacaa	atgtaaagaa	1560
gaaggagtta	agagtcacca	gcatgtcatg	gctccaacac	tgaacttcta	caccaacccc	1620
tggatgtggt	caaagtgtag	tcgaaaatat	atcactgagt	ttttagagta	agacttgaac	1680
attcttttag	cacaaacttc	tagtgccctg	cctacatgta	gtgaactaat	tgtgggaaag	1740
acaatatgaa	gtcaaacatt	ccttttgagt	tatttttgtt	gacattcctt	ggagaaggca	1800
aaaaaaaaaa	aaaaaaaaaa	ctcgtag				1827

<210> 500

<211> 3303

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2355)

<223> n equals a,t,g, or c

<400> 500

gggcctggcc	tctggagctc	cttttactct	ggaaagaaca	tgacagacat	cctctgccct	60
tcagcctgtg	ccccagaatg	agagacccat	gggacagact	caagctgtac	cctgaagcag	120
agctgccag	ttgactgcag	acctgttagc	tttatacgtc	tacgaatatt	tactgcacgt	180
aggagcacag	aaatctgcac	agaccttctt	atcggagatt	cgatgggaaa	aaaacatcac	240
gttgggagaa	ccgcctgggt	ttttgcactc	gtgggtggtg	gtattttggg	acctttactg	300
tgcagctcct	gaaaggagag	acacttgtga	acattcaagt	gaagcaaaag	cctttcatga	360
ttatagtgca	gcagctgccc	cgagccccgt	gcttggaac	attccccca	acgatgggat	420
gccgggaggc	cccattcccgc	caggtttctt	tcagggtcct	ccggggtcac	agccctcgcc	480
gcacgcacag	cctccacctc	acaatcttag	cagcatgatg	ggacccaca	gtcagccttt	540
tatgtcacgc	cgatacgcag	gcggccccag	gcccccgatc	agaatgggaa	accagcctcc	600
gggaggagt	cctgggacac	agccattgct	gccccattct	atggatccca	cacgacaaca	660
aggccacccc	aacatgggag	gatcaatgca	gagaatgaac	cctccccgag	gcagggggcc	720
catgggtccc	ggcccacaga	attacggcag	cggcattgaga	ccaccacca	actccctcgg	780
ccccgccatg	cccgggatta	acatgggccc	gggagctggc	agaccctggc	ccaatcctaa	840
cagtgtcaac	tcaattccat	actcctctc	atcacctggt	acctatgtgg	gacccctcgg	900
tgggtggcgt	cctccaggaa	caccattat	gcccagtcct	gcagattcaa	caaattccag	960
tgacaacatc	tacacaatga	ttaatccagt	gcccgcctgga	ggcagccggt	ccaacttccc	1020
gatgggtccc	ggctcggacg	gtccgatggg	cggcatgggt	ggcatggagc	cacaccacat	1080
gaatggatca	ttagggtcag	gcgacataga	cggacttcca	aaaaattctc	ctaacaacat	1140
aagtggcatt	agcaatcctc	caggcacccc	tcgagatgac	ggcagctag	gagggaactt	1200
cctccactcc	tttcagaacg	acaattatct	tccaagcatg	acgatgagt	tgtgatcccc	1260
ccttctccga	gacgtgaga	gagcaggcat	tgacggcggg	aagatgccag	aaattatgca	1320
agaagtgagg	tgctattatc	caggagctgg	tggggagggc	atctccctgc	tcccctcaac	1380
ccctcccac	cccatccacg	ccccctacct	ttcccaattt	tagtttcatg	caataaaaaag	1440
gccaaacttt	ttattccata	aaacaagaag	gacaaaactc	tcaaaaatgt	atttcaagtc	1500
agtgaccaga	aaaatcccac	cccttgccct	ttccccaaag	gaccttttct	gtacatgaca	1560
cttttttgtt	gttttttgtt	tgggggtttta	ccattgttgg	gattttttta	tttgttttca	1620
gggggggtttt	ttgggggaaa	atttttttaa	atggaagctt	ctagcaagcc	ccccaccca	1680
atcaacctct	atgcttttct	cttaaaaaaa	aaaaaaaagg	aaaaaggaaa	aaaaaaaaaag	1740
gaaaaccaga	agccctgctg	tctgtctgtg	cccaagccct	tccaccagaa	aagctagtct	1800
aggtgtgaga	gccacattg	tctgtagcca	tcaaaaataa	taataataaa	ctggacagtt	1860
tacaatcggt	ggtttctttc	aaaaggcctt	ttttggaaag	aagaaaaggc	agtcaccgtt	1920
ttccacttgg	ggtttttggt	tgtgcaacag	gcaggggagg	agtggggacg	cgtttgttct	1980
agcttgattt	ccatggcaac	agcagcggca	cgtttgggac	cccagaacct	agcaccctca	2040
tcctgtggcc	agagggggccg	gacctgtgac	cccttccagg	attccaccac	agcccagacc	2100
gtcacctgta	cccgttggca	tgcactgttc	ccaggacacc	ytctctctcc	tctcttgagc	2160
ctcccttccg	tcctggcctc	cctgcctctc	cagccctctc	tctgccccca	ccccagtcct	2220
cccagtggaga	atcctgccag	ctgggtgggt	gcctggcgca	gagtgggaga	ggctgccact	2280
gacaggatgg	ctatgacctg	ggacatggaa	acagtgcact	ccgcgttctg	gtcccagagat	2340
cctcgcatca	gcgtncatcg	tgtgcaccgg	cttggggggc	tggagtcccg	gttttctttg	2400

T0260 "03005660

tttttttctt	tattcgctct	ttctcaaaga	tgggatactg	atcagaattg	ctctgtatat	2460
gcttgggact	ggatggaaag	actttggagc	agctgtgggg	ggtgggggga	caccgacaac	2520
caaacagacg	tgctggctcc	agtctgtttt	ttactttcaa	aaaccaacaa	gcccgcagct	2580
ggagcctgtc	ccctcccggg	aggggtgctca	tggccccact	cacctcatca	ccccacggaa	2640
accttttgtg	cttgccctgg	aagacacccg	aattctttgt	acattgacat	gcccttctcc	2700
ttctccctc	ccctgtagct	ggtctttgtt	ttactccctc	cctttctgat	ccatgtatat	2760
catattatgt	gagatatcat	ctgcctgaaa	aaagactttg	tgcggattat	tgggaacatt	2820
gtagctgttt	ctgtgttttt	tcttaccttg	tagtctgggt	ctgaattaag	agaggaaaaa	2880
aaagtaatta	tgatacattg	tagtttgtgt	acgatatatg	ttgataacgt	tttattaaag	2940
ggacatcttt	tttccgcagc	ccttctctgac	atgtttgggg	aatgtgggtt	ggagtttatt	3000
acactgatta	caaaatgcaa	ggtgacttct	tgggcacagt	ttttgttctt	ggtgcataac	3060
aagatgtttt	gtgtttgagg	cgtctgcstt	cttttctctg	gcctgcaagt	tctgtgttct	3120
tgtggagtcg	cgatggcctt	ggcggaaaggt	gggttgggag	ggaaggtatc	catctcactt	3180
taaatatattg	ggggccgtct	aaaagccatt	ttccatttct	tgtcttgcaa	acacattttg	3240
gtccgctgga	atgtctttta	tttttctgga	agtagaaaaa	ggttctctct	ggtgcctctt	3300
ggt						3303

<210> 501

<211> 1948

<212> DNA

<213> Homo sapiens

<400> 501

gatttgtaac	caggctgtca	ttccatgttt	gtttggaagc	ttagagataa	catttatgaa	60
ctttgtgaca	catagtagtt	gctcaataaa	tgtaactgt	agaaacacat	tgattagttt	120
cacttcagaa	atagacactt	agagttcaaa	attcccatct	gcctagctcc	tgaggcccac	180
tttcttacca	gaatctttcc	tgataccctc	tcttgcataa	aatggttctt	cttttgagac	240
ttttagctc	ttttgtactt	ctcttattct	gttacgttac	tgcaaaaaaa	aaaaaaaaga	300
aagaaaagaa	aagtgcctaa	tgtgtacatg	cttttctccc	tgctggaatg	taaactttgt	360
aaaggcatga	tccatagcag	atacttctta	ttacaaacta	cctggcagaa	tttctttcta	420
aagaacctac	tcagtaagcc	tgttggtgaa	ctgagcaaca	tttggaacat	tatggcatct	480
cttacaattt	tcagctattg	sttttctact	gtttagaaat	gtaaaacttt	gcaaggactt	540
ttataaaagc	aaatttcaga	atagttattc	actaagcttt	tttatgctaa	tgatgtcatg	600
ctatcaaaaa	ttagctagag	taaatggact	gtaatgagga	tggtttgtaa	tctagattat	660
atgttccaca	tgtaacatcg	aaatgaaata	taaaattgag	ttgttggcat	gtggttgtgg	720
tgagcagaag	cagttattat	acattacttg	gtaaaattca	tattcatatc	ttgtcagttt	780
acagtgaacc	agagattaaa	aataacattt	gtttctgttt	tagtaactgc	ttaaaaatat	840
ccaaaatcat	tttattttct	ttagctgcac	ttctagtagt	gttttgaata	tgtggccttt	900
caagcagtaa	tgaaatgcat	caatgcgact	tggcagtgcc	tcacaggaca	tgcttctagg	960
atcattttta	atgattaaaa	gtcaaatgta	gttctaaaaa	actgacccaa	aatatagatg	1020
agccaagtaa	aaacggaagg	aaatctgaat	aaaatcttgg	ttcttggtcc	tctgcatgta	1080
tcctccacat	ctgtttttct	cagatctctt	ttttcttgct	tgktgatagc	acagaggaag	1140
atcgagaga	gtaatgtact	gtatatgktt	cacatccccc	ttcctcttta	gtgatagttt	1200
ggagagtata	ctgcagtcac	catggttttc	agtttggaga	ktacaaggat	cagatctgta	1260
ttttctagas	ccagcttttg	tggcattctg	gagaggtgat	tggagaacca	tgagagcagg	1320
cagacatctg	ggtgagaggg	cacgaggggt	gagtgcggc	agagccagrc	ttgctggaga	1380
ggcagaaaag	gaaggattca	agtagcataa	ccaggaaata	gaattgatag	gatttgggtc	1440
ctgctgacct	gtggaataag	ggggaaggca	gaggagtga	ttctagtatt	tctaagttgg	1500
scacttagt	gatattgggg	taccaggaac	aggcttagtg	gacccacaga	agtgaccaga	1560
cccaggagtc	tctctgagcg	cccacctgg	cttctctgtg	ttggcttacc	ctttcttggt	1620
tgggggtcat	gggggtggtca	gcttcagtg	tgtggtctga	ggtgacaggt	gctcaggagt	1680
gaggacaggg	agtagacatc	accaatgtga	atgtggaggt	aggcaacaag	agttattcta	1740
gaactgacaa	atttaatatata	ttttgctgac	tgctgagttc	catttggaca	aatacctaata	1800
gcatttgggg	cttaaaacct	agatgacggg	ttgaagggtga	caacaaacca	ccgtgatata	1860
tgtatactta	tgtaacaaac	ctgcacgttc	tgcacatttg	tcccagaact	taaagtaaaa	1920
aaaaaaaaaa	aaaaaaaaagg	gcggccgc				1948

<210> 502

<211> 1008

<212> DNA

<213> Homo sapiens

T0260 2805660

<400> 502

ccacgcgtcc	gagctatcag	agtcatatca	agactgatca	gtattaatta	tctgcatttg	60
gaagaagagg	aaggaatata	gacagtaaaa	tattatat	ctatttgtgc	ttaggacacg	120
tttagaatag	agtttttgtt	tatcagcttt	cctaattggtg	agatttggat	caaaatgcct	180
ttgcttttcc	taaggctgcc	caaccgtaaa	gggagctgtc	cctaaggaga	cgtcaggcca	240
gaagtgaat	ttggctgaaa	gtaatttgtt	tatggatttt	aaaagttgac	tgttgggcaa	300
tcatttgggg	tttaaggttta	atcattcttt	ctcgtaatgg	taatgacagt	acattggact	360
cttagaagac	ttttaaaatg	aatataaaaat	gctttgttat	gtgtggtggc	ctttatctgg	420
ccagcatcct	tgtgacgtgg	agagagcatg	gctctcctca	ctttctggat	gaacacacaa	480
atgtgctgag	aaaatgcatg	attggttcaa	agttgcaaaa	tcacctccca	tcaagaatca	540
ttcctataat	atgtacagcc	tctccaggag	ccaatggctt	catccaaaga	ggatccactg	600
agctctgggt	tatacgaagg	cagtatccta	gagtggaggt	cttcccttag	gatgaaaaga	660
cctttagaag	gtgataagaa	ccagaatcca	ctcaatcccc	ttgatgtaag	aaatgggaat	720
tgtgctcagt	tctctctgca	ggccttgctg	gacccaggtt	cagtcatgtt	ctgtctctca	780
ggctccagtc	tgaattcctg	ttctgtgtgt	gctctgccaa	aaactttgtt	caaaagtttg	840
ggaaagggct	gggtgcagtg	gctcaggaca	gtaagcccag	cactttggaa	gacctagagg	900
gagaatcgct	tgagcccagg	agtttaaggc	tgcagcaagc	ggtaatcatg	ccactgcact	960
cctgcctggg	tgatagacgg	acaccctgtt	tctaaaaaaa	aaaaaaaa		1008

<210> 503

<211> 2085

<212> DNA

<213> Homo sapiens

<400> 503

ccacgcgtcc	gggggacaga	gccatcctcc	tttgacacct	ggtcttcagt	tctgtgcca	60
acgtatatag	ttttgacaat	gaccagggtg	gactgtttta	tgtctttcaa	cttaccacgt	120
aatcctcttg	tagggatcac	atctttcttt	atgatattgt	atttctctac	ctctaacagt	180
aaaaattcca	ttcaaccctt	aaagctcact	tcaaattcct	ctttgagaag	tttttctttt	240
ctccgcaacc	agatgtacat	atttgaactc	tctttgtact	tggagggcac	ttctttcgtg	300
gtagtctctt	tattttttatt	aatctctgtg	tccttagata	gtcctccaac	aaccaaaggt	360
tggggactct	gtcttacata	tctgggtgcc	ctcatagtgc	agtaataagt	aagttgatta	420
tatacgagct	atgtaactta	tattttttta	tgggtggata	tcactgagtt	ttttttttta	480
agaatttttt	tattgaggta	aacttcacat	aacataaaat	taactatttt	aaagtgagaa	540
gttcagtgcc	acttagtatt	gttaacaatg	ttgcataacc	accaccttta	tttaaagttc	600
caaaaaaaaa	gttctcctct	aaaaggaaac	cccatcccat	taagcagata	ctctccattc	660
cttccttctt	ccagccccc	gcaaccacca	atctgctttc	tgtctctatg	gttttatcta	720
ttcttgcct	tttatataaa	tcgaattgta	tgagaccttt	tgtgtctggc	ttctttcact	780
tagtacaagt	ttttgagatt	tatttacata	gtagcatgta	tcaacacttc	atttttatgg	840
ccaaataaaa	ttgtattatg	tgtttataac	acaatttatt	tatccactca	ttcattgatg	900
gactttgggt	tgtttctgac	ttttggctat	tgggaatagt	gctgctatga	atgtttgtgt	960
acctgtattt	gtttgaatgc	ctatttttgc	ttctcttgga	tatatatcta	ggagtggaa	1020
tgctgggtca	tatgttaatt	ctatgtttag	ctttttgagg	aacagacaaa	ctgttttcca	1080
cagcagttga	accattccac	attcccacca	gcaatgtatg	agaattccaa	tttctgtcca	1140
cttctcacc	aacacttatt	attttccctt	tccttttttt	aaaaaaaa	agttatggcc	1200
atcttagtgg	gtgtgaagtg	gtatctcatt	gtgtttttta	tttgcatctc	ctatgtaatg	1260
agctagaaac	taaagtacaa	actagatggg	acatccagtc	cctttgatag	ataatgctga	1320
gtaaaaaatg	agatgaaaga	catttggttg	tttttagaac	atgagtgaca	gtttgttaaa	1380
aagctttaga	ggaggaatga	aaacaaagtg	aagtacactt	agaaaagggc	caagtggaca	1440
tcttggatgt	caagtgccta	gttcagtatc	tttttttttt	tttttttttt	ttttgagaca	1500
gtgcctcact	ctgtcaccca	ggctggagtg	tagtggcatg	atctgggctc	actgcaacct	1560
cctcctcctg	gattcaagca	attctcttgc	ttcagcctcc	caagtagctg	agactacaag	1620
caccaccac	cacaccgggc	taatttttga	tttttcagta	gagacggggg	ttcgccacat	1680
tggccgtgtt	ggtcttgaac	tcctggcctc	aagcaatccg	cctacctcag	cctcccaaag	1740
tgctaggatt	acaggcataa	gccactgagc	ccagccctag	ttcagtatct	tttatgtaaa	1800
ttataaacat	ctgcaacatt	atgtatcaga	tgcagatact	tattgcattt	cttttattag	1860
tggtgaaagt	gttctatgca	tttattggct	cttgaaattc	ctcatctatg	aattgtcatt	1920
cacacaccta	cttttctgct	tcgtttttac	atatgtcttt	gcctattaaa	gatattatcc	1980
ctctgtttta	tattttctct	cattcttcta	ttgcctttta	aattttgtta	tgatgtttca	2040
ttaataaaca	gtgttttgtt	ttcctctata	aaaaaaaa	aaaaa		2085

<210> 504
 <211> 1497
 <212> DNA
 <213> Homo sapiens

<400> 504
 ccacgcgtcc ggatcctgag aaagtgactt tatctctcag agccatcggt tccttatgtg 60
 taaaacagag atgaagaatg accacctgga aggattgtcc catgtgaaag tgcctgcctc 120
 ttccagcagc tgacaggtag taggaactca ctgtgggtag tagctgatgg cgggtggcacc 180
 agcttatgta agcccacaag actcaagcag gattctcttt ttacagagga aactccaggc 240
 tacgttcatt tcttactgtc cctcatgtag aaaggtaaac ttgggtcata cctggatact 300
 gtctctcatc tttttctttt gctctgagca agtagctccc atgtatccaa tatgaatctt 360
 ggtccataaa ttcaagcatt tgagaaataa aatttcaa atatacttga aatgcttcaa 420
 gtgtatctga gaaattcttg gtatgtccac acagtgaat attactcagt cataaaaagg 480
 agtaagtact gtacatacta cgacatggat gaacctagaa aacatgcact aagtgaacaa 540
 aaccagatgc aaaagaccac atatcataag acttcattta ,tatgaattgt ccagaataag 600
 caaacccata aagacaaaaa gtagatgact ggttgccaga ggataagggg agggagaatg 660
 gagagtgatt gctaataagg atagggtttc tttttggagc gatgaaaata ttctgggatc 720
 agatagtgtg gatgggttaca tacttagtga gtatagtaaa agccgctgaa ggggtattctt 780
 taaaatggtt agtttacgtt acatgaatta cagctcaaga aaaaaagtaa aaatcactgc 840
 caaacctatg gacattgaaa agataataaa ggaatattat gaacaactct atgccacca 900
 atttgctaac ttagatgaaa tgggaataatt tcttatttct attaaaactc atacaaatag 960
 aagaccctat ggagctttta tttattaatg caaacagtac ctaacaaacc cacaggctct 1020
 aaactaccaa actgcattaa aaatttcggt tggggcgacc tcggagcaga acccaacctc 1080
 cgagcagtac atgctaagac ttcaccagtc aaagcgaact actatactca attgatccaa 1140
 taacttgacc aacggaacaa gttaccctag ggataacagc gcaatcctat tctagagtcc 1200
 atatcaccaa taggggtttac gacctcgatg ttggatcagg acatcccgat ggtgcagccg 1260
 ctattaaagg ttcgtttgtt caacgattaa agtcctacgt gatctgagtt cagaccggag 1320
 taatccaggt cggtttctat ctacttcaaa ttcctccctg tacgaaagga caagagaaat 1380
 aaggcctact tcacaaagcg ccttcccccg taaatgatat catctcaact tagtattata 1440
 cccacacca cccaagaaca gggtttaaca aaaaaaaaaa aaaaaaaaaa aaaaaaa 1497

<210> 505
 <211> 1958
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (374)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (377)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1244)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1300)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1311)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1327)

<223> n equals a,t,g, or c

<400> 505

aattcccggg	tcgacccacg	cgcccgacg	tccctctctc	cctctggccc	agtcccttcc	60
gcttgtgtcc	gggaagctgt	gggagggtgat	ttaacatgac	tcacttgggg	gcataggcgc	120
tatgaagttc	agtggctggg	tgccagggtg	cgccaatgac	accctttttc	tcagagcccg	180
ggctgaatgg	acacctccct	caaagccttc	cagacccagg	gttacggccg	ttcccagaga	240
catgttccc	tgctgctggg	cacacctgca	gaggggaggg	aaggtcctgt	gtttgctggt	300
gctgctcgtc	ctctcacttc	ctaccgagca	tcattgttgc	aacaaatgac	cttggcacca	360
ccgtttttgca	aatngtncct	tcttgggctt	tacttttttg	tctatgtgag	caaaatgaac	420
tgaagtcaag	gtacgactcc	caataacctg	ctgtgggatg	agagggcttt	gtcattatgc	480
atctgattag	ttatccacgc	ccagagctac	actttctcga	tgcttctcag	ctctgactct	540
cacagggcca	gggagaaatt	tttgtgcccc	ctaaatcatg	tagttggata	caaaacattc	600
cctggaggcc	taccattctc	aaatccccgt	gcagggtctc	gtgggggtgca	acatgaaact	660
cgctctaact	ccctacgtgg	aggacagaca	gacccatcct	aactccaaag	ccagacacaa	720
gggacaaagg	taccaaaaag	gtgcaagggt	caagaatgga	cgacgtgggt	cttccaattt	780
gctggaatat	ctgtgcggt	agaatgggtg	cttgtcagca	tatatcaagc	atcttgccct	840
tgctctgtcc	tgcttgccca	caaaggacac	tcagacaaca	ccggcctcat	aaatgctgcc	900
tgagaaaaag	cctagctagg	tacggagggt	cagggtatct	cagaaaagag	aaactgcttc	960
agccaatgct	catgagattt	accagggaat	agcaaacaag	tctagtgcga	gccagggttg	1020
ggggagtggg	aggggtgatta	gcagagatca	atctagaaaag	gaggtcaagg	ttctgtaggt	1080
ggggaaagag	ggtgcttggt	tattaaaact	tgttttccag	cagtttggag	atttctcaca	1140
gaactaaaaa	tagaactacc	attcatccca	gcaatcccat	tactaggtat	atactcaaag	1200
gaaaacaaat	tgttctatca	aaaagacacc	tgtactccta	tgtntatcgc	agcactattc	1260
acaatagcaa	agacatggag	taaacccagg	tgcccatcan	cggtgaactg	nataaagaaa	1320
atgtagncat	atgcctacca	tggaatacta	cgcagctgta	aagaggaaaag	aatcatgtc	1380
ctttgcaaca	acatggatac	agctggaggc	cattatgcta	agtgaattaa	tgagaaaaca	1440
gaaaactaaa	tatcacatgt	tcttatttgt	aagcagaagc	taaatattgg	gtgcacacag	1500
gcacaaagat	gggagcaata	aacactgggg	attccacaaa	gggagcaggc	agagggaagg	1560
gttgaaaaac	tacctatcag	gtcctctgtg	cactacttgt	gagacagaat	cattagaagc	1620
ccaaacctca	gcatcacaca	atatacttat	ataacaaaacc	tgacatttga	cccctgaacc	1680
taaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaag	gggggggggg	1740
ggggaagaag	tggggtggga	cgacagtga	atctagagta	aatcaagct	ggcccaaggt	1800
gtcctgcagg	ctgtaatgca	gtttaatcag	agtgccattt	ttttttttgt	tcaaatgatt	1860
ttaattattg	gaatgcacaa	tttttttaat	atgcaaataa	aaagttttaa	aacttaaaaa	1920
aaaaaaaaaa	aaaaaaaagg	gcggccgctc	tagaggat			1958

<210> 506

<211> 1147

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (11)

<223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (12)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (19)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1145)
 <223> n equals a,t,g, or c

<400> 506

cgcannccac	nnggtggang	ccgctctaga	atatggatcc	cccgggactg	cagggagtc	60
aaggtacagt	cgccgcgtgc	ggagcttggt	actggttact	tggcctcatg	gcggtccgag	120
cttcgttcga	gaacaactgt	gagatcggt	gctttgccaa	gctcaccaac	acctactgtc	180
tggtagcgt	cggaggctca	gagaacttct	acagtgtgtt	cgagggcgag	ctctccgata	240
ccatccccgt	ggtgcacgcg	tctatcgccg	gctgccgc	catcgggcgc	atgtgtgtgg	300
ggaacaggca	cggctctctg	gtacccaaca	ataccaccga	ccaggagctg	caacacattc	360
gcaacagcct	cccagacaca	gtgcagatta	ggcgggtgga	ggagcggctc	tcagccttgg	420
gcaatgtcac	cacctgcaat	gactacgtgg	ccttggtcca	cccagacttg	gacagggaga	480
cagaagaaat	tctggcagat	gtgctcaagg	tggaagtctt	cagacagaca	gtggccgacc	540
aggtgctagt	aggaagctac	tgtgtcttca	gcaatcaggg	agggtctggtg	catcccaaga	600
cttcaattga	agaccaggat	gagctgtcct	ctcttcttca	agtccccctt	gtggcgggga	660
ctgtgaaccg	aggcagttag	gtgattgctg	ctgggatggt	ggtgaatgac	tggtgtgcct	720
tctgtggcct	ggacacaacc	agcacagagc	tgtcagtggg	ggagagtgtc	ttcaagctga	780
atgaagccca	gcctagcacc	attgccacca	gcatgcggga	ttccctcatt	gacagcctca	840
cctgagtcac	cttccaagtt	gttccatggg	ctcctggctc	tggactgtgg	ccaaccttct	900
ccacattccg	cccaatctgt	accggatgct	ggcagggagg	tggcagagag	ctcactggga	960
ctgaggggct	gggcacccaa	cccttttcca	cctgtgctta	tcgcctggat	ctatcattac	1020
tgcaaaaacc	tgctctgttg	tgtggtctgg	caggccctgt	ggctgtctggc	tgagggttct	1080
gctgtcctgt	gccaccccat	taaagtgcag	ttccctccg	aaaaaaaaa	aaaaaaagg	1140
cggcnac						1147

<210> 507
 <211> 781
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (34)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (751)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (762)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (764)

<223> n equals a,t,g, or c

<400> 507

cccggaattc	ccgggtcgac	ccacgcgttc	ggcncagtga	cagaggcacc	cagggctcag	60
caagctcatg	gccagcttg	ttggactcag	agggcagaag	aatcacattc	taaacaatgat	120
aaggtatagc	cagcaggagg	cagattccca	gattgattct	ccagagcctt	gtaggtccca	180
agggtgccta	tgacaccaat	gggaatctga	accaacacag	acagcacagt	cttcttagga	240
gaccctagtg	cagcagcgct	ggcctcctcc	tgagcgtgca	cgcttatatg	gcttctgagc	300
tggccaggct	acttcatgca	tttggtttaa	tgggtcctcg	taaggcagga	gaatcttctt	360
gaacttggag	ttgggtctgt	ggtccattgg	tcagtacttt	gttcagaggc	actgagggtg	420
ggaaggctca	tggagctgga	ttctgctgct	gggaagctgg	gtgggccttg	tttgtgggcc	480
tcaggttcag	gactgaatga	gagtcctctt	gttgcgagtt	gaggggtgtac	tctgggcatg	540
ccatgccctt	ttttgtact	aagagggtag	aaaagcaaag	accagactag	ttggcaaatt	600
ggaacccaac	taccagttt	atattttct	targcgtaga	aggaataatt	tagggggaac	660
tgaagagcca	acctaaagga	aaaaaaaaa	aaaagggcgg	ccctatagag	gatccctcga	720
ggggcccaag	cttacgcgtg	catgcgggcg	ngttacctca	antnaaatat	agagagttcc	780
c						781

<210> 508

<211> 1346

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (291)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (421)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (423)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (425)

<223> n equals a,t,g, or c

<400> 508

ccacgcgtcc	gctagaatgg	gcacgagctc	tgccctcatc	acagtcctaaa	agtgagcacc	60
tgcctggagc	tgcccagaaa	cagccttgtg	gggtgggggtt	ggtgtctgac	ctccctcccc	120
gggggccttc	gcaggcttct	ctgctgggtg	ttctgtgcct	gtaggtcttg	attcctccag	180
ggcctgatcc	tgggtgcaga	tgacgttggg	agccctgaac	ctgctgcaca	cactagtctg	240
ggcacggagt	ctctgccgtg	ccggagctgt	gcagacacag	gagcggctgt	naggcagtgc	300
cagccctgag	caagtgccag	ctggtgagtg	ctgtgctctg	caggagtatg	aggccgccgt	360
tggagcagct	caagagcgag	cagatccggg	cgcaggctga	ggagaggagg	aagaccctga	420
ncnangagac	ccggcagcac	caggccaggg	cccagtatca	agacaagctg	gcccggcagc	480
gctacgagga	ccaactgaag	cagcagcaac	ttctcaatga	ggagaattta	cggaagcagg	540
aggagtccgt	gcagaagcag	gaaaccatgc	ggcgagccac	cgtggaaccg	gagatggagc	600
tgcggcacaa	gaattgagat	tgctgccgat	ggagaccgat	gcccggggcg	gcgccaaggc	660
cgagcgggag	aatgcagaca	tcacccgcga	gcagatccgc	ctgaaggcgt	ccgagcaccg	720
tcagaccgtc	ttggagtcca	tcaggacggc	tggcaccttg	tttggggaag	gattccgtgc	780
ctttgtgaca	gaccggggaca	aagtgcagc	cacggtaaac	atattcataa	aacagggtctg	840
gcaggtggct	gagaggcagc	atgtgggggc	ctcctggagc	cccaggtcct	gtccctgccg	900
gctctgcaca	gccctgtagc	tctcccagca	cagagcaaac	ccacgttgta	cctgctgggc	960
tcggctgctc	ctccctcctt	gagctgggag	aaaaaaatgc	agttgccagc	ctgggccaca	1020

cggtgagacc	ccatctctac	gaagaataaa	acattagctg	ggtgtgatgg	tggcgcctgt	1080
ggtcctgcta	ctcgagaggg	tgaggttaga	ggatcactta	agcccaggag	gtttgggctg	1140
cagttagcca	acattgcacc	actgcactcc	attcttggcg	agagaataag	accttgtctc	1200
aagaaaaaaa	tggccaggcg	gtagtggctc	aggcctgtaa	tcccagcatt	ttcggaggcg	1260
gaggtgggcg	gatcacgagg	tccggagatc	gagatcatcc	tggttaagagt	gaaaccctgt	1320
ctctaccaa	aaaaaaaaa	aaaaaa				1346

<210> 509
 <211> 1338
 <212> DNA
 <213> Homo sapiens

<400> 509						
ggcacgaggg	aagaggaagg	tgctcagtca	ggaaactggk	gctgctgggg	gcccccttcc	60
cccagtccta	tctcacctct	gtgcaggagg	agctctgtgg	gtggcccagag	gcctggggyc	120
actctstctc	ctgcctgatg	gctacccagg	ttcaccaggg	gccactgggg	ctcccaccag	180
cccctgaccc	tgtggrcctg	tggcyttgca	ggagaacgtc	agctgcctca	acaccagcct	240
ggtgatcctg	atgctggccc	gacggaaaga	gcggtgccc	ctgtacctgc	ggctgctgca	300
gcggtatggg	cacagcaaga	agtaccccg	cttcctgctc	aacaacttcc	acaacctgct	360
gcgcttcttg	cagcagcact	acctgcacaa	ggacaaggac	agcacctgcc	tagagaacag	420
ctcctgcate	agcttctcat	actggaagga	gacagtgtcc	atcctgttga	acccggaccg	480
gcagtcaccc	tctgctctcg	ttagctacat	tgaggagccc	tacatggaca	tagacaggga	540
cttcactgag	gagtgcctt	gggccaggcc	tcgggaggct	gctggggccag	tgtgggtgag	600
cgtgggtacg	atgccacacg	ccctgccctg	ttcccgttcc	tcctgctgc	tctctgctg	660
cccaggtct	ttgggtacag	gcttggtggg	agggaagtcc	tagaagccct	tgggtccccct	720
gggtctgagg	gccctagggtc	atggagagcc	tcagtcacca	taatgaggac	agggtagcat	780
gccaccttt	ccttcagAAC	cctggggccc	agggccaccc	agaggtaaga	ggacatttag	840
cattagctct	gtgtgagctc	ctgccggttt	cttggtgtgc	agtcagtcce	agagtgggga	900
ggaagatatg	ggtgaccccc	accccccatc	tgtgagccaa	gcctcccttg	tccttggcct	960
ttggaccacg	gcaaaggctt	ctgagccctg	ggcaggggtg	gtgggtacca	gagaatgctg	1020
ccttccccca	agcctgcccc	tctgctctcat	tttctgttag	ctcctctggt	tctgttttgc	1080
cattggcygc	tgtgttcatc	caaggggggt	ctcccagaag	tgaggggcct	ttccctccat	1140
cccttggggc	acggggcagc	tgtgcctgcc	ctgcctytgc	ctgaggcagc	cgctcctgcc	1200
tgagcctgga	catggggccc	ttccttgtgt	tgccaattta	ttaacagcaa	ataaaccaat	1260
taaatggaga	ctattaaata	actttatttt	aaaaatgaaa	aaaaaaaaa	aaaaaaaaa	1320
aaaaaaaaa	aaaaaaaaa					1338

<210> 510
 <211> 1478
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1385)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1390)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1468)
 <223> n equals a,t,g, or c

<400> 510						
gctggagggtc	cttctttctg	ccacagtcag	ctttcggttga	agctgttttg	atgatgagct	60
cccagcttca	gagtcaggac	ccaagcgggg	ctccamgaaa	ggcctggggcg	acccagccac	120
tgggcctaag	cctgacctgc	tgcacccctg	cctccctcca	cagttgccga	ggtactgtct	180

gaatgccgcc tgcctgccta catatcccag gtgcccacgc agatgtcctt cctcttccgc 240
ctcatcaaca tcatccacgt gcagacgctg acccaggaga acgtcagctg cctcaacacc 300
agcctgggtga tcttgatgct ggcccagcgg aaagagcggc tgcccctgta cctgcggtg 360
ctgcagcggga tggagcacag caagaagtac cccggcttcc tgctcaacaa ctccacaac 420
ctgctgcgct tctggcagca gcactacctg cacaaggaca aggacagcac ctgacctag 480
aacagctcct gcacagctt ctcatactgg aaggagacag tgtccatcct gttgaacccg 540
gaccggcagt caccctctgc tctcgttagc tacattgagg agccctacat ggacatagac 600
agggacttca ctgaggagtg accttggggc aggcctcggg aggtctgctg gccagtgtgg 660
gtgagcgtgg gtacgatgcc acacgccctg ccctgttccc gttcctccct gctgctctct 720
gcctgccccca ggtcttttggg tacaggcttg gtgggaggga agtcctagaa gcccttggtc 780
cccctgggtc tgaggggccct aggtcatgga gagcctcagt ccccataatg aggacagggt 840
acctagccca cctttccttc agaaccctgg ggcccagggc caccagagg taagaggaca 900
tttagcatta gctctgtgtg agctcctgcc ggtttcttgg ctgtcagtca gtcccagagt 960
ggggagggaag atatgggtga cccccacccc ccatctgtga gccaaagcctc ccttgtccct 1020
ggccttttggg cccaggcaaa ggcttctgag ccctgggcag ggggtggtggg taccagagaa 1080
tgctgccttc cccaagcct gccctctgc ctcatcttcc tgtagctcct ctggttctgt 1140
ttgctcattg gcygctgtgt tcatccaagg gggttctccc agaagtgagg ggctttccc 1200
tccatccctt grggcacggg gcagctgtgc ctgccctgcc tctgcctgag gcagccgctc 1260
ctgcctgagc ctggacatgg ggcccttcc tgtgttgcca atttattaac agcaataaaa 1320
ccaattaaat ggagactatt aaataacttt attttaaaaa tgaaaaaaaa aaaaaaggcg 1380
ggcgttctan aggaaccaag ttacgtacgc gtgcatgcga cgcatactct tctatagggc 1440
acctaaatca attactggcc gccgttanaa cgtctgat 1478

<210> 511
<211> 2878
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (205)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (213)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (840)
<223> n equals a,t,g, or c

<400> 511
tgatgatcag gatgaaggga gcccagtcac ccaagaacct gagctagcat cagggtggtgg 60
tggtagtggg ggagttggca aaaaggrgca gctgtctgtg aagaagyttc gagtagtact 120
gtttgctcta tgctgcamta cagaacaggc agytgaacac ttccgaaatc ccagcgacg 180
tattcgccgt tggcttcgac gtttncaggc ctncagggg gagaatctag agggcaata 240
tctgagcttt gaggcagaag agaaactggc tgagtrggtg ctaaccacgc gcgaacaaca 300
gctacctgta aatgaggaga ccttgttcca gaaggccacc aaaataggac gttcttttggg 360
agggggggtt aagatctcct atgagtgggc tgtgcgtttc atgctgcggc accacctgac 420
tccccatgcc cggcgagctg tggcccacac cctacctaaag gatgtagcag agaatgcagg 480
actcttcatt gattttgtac aacggcagat tcacaaccag gacttaccct tgtctatgat 540
tgtggctatt gatgagatct ctttgttccg ggatacacag gtgctgagca gtgatgatcg 600
aaaggagaat gccctgcaga cagtgggcac aggggaacct tgggtgtgat tagtcctagc 660
cattctggca gatggcactg tccttcccac cctgggtttc tacagagggc agatggatca 720
gcctgctaac atgccagact ccatattgct agaggcaaaag gagagtggct acagtgatga 780
cgagatcatg gagctgtggg caactcgagt gtggcagaag cacacagctt gccagcgcan 840
aaaggcatgc ttgtgatgga ctgtcatcgc actcacttgt cagaagagggt actggctatg 900
cttagtgctt ctagcacttt gcctgcagtg gtcccagcag gctgtagctc caaaattcag 960
ccattagatg tatgcatcaa aagaactgtc aagaacttcc tgcataaaaa atggaaggaa 1020

T 0 0 1 6 0 - 2 8 0 0 5 6 0

caggctcggg	aaatggcaga	tactgcatgt	gattctgatg	tcctgcttca	gctgggtgctt	1080
gtctggctgg	gtgaagtgt	aggtgtcatt	ggggactgtc	cagagctagt	tcagcgctcc	1140
ttcctgggtg	ctagtgttct	gcctggcccc	gatggcaaca	ttaactcacc	tacaagaaat	1200
gctgacatgc	aggaggagct	aattgcctcc	ctagaggagc	aactgaagct	gagtggggaa	1260
cattctgagt	cttccactcc	acgacccaga	tcattctcctg	aagagacaat	tgagcctgaa	1320
agtcttcacc	agctctttga	gggtgaaaagt	gagaccgagt	ctttctatgg	ctttgaagaa	1380
gctgacctag	atctgatgga	gatttgagt	ttgggggtcat	gaggggggtg	ggagtggggg	1440
tgggaacatg	tgaggggagg	taaaggggct	tagggaaaag	ggggcatacc	aggtggggta	1500
tttggtttct	atTTTTTaat	tttataccac	cactcccccc	tgaagttgac	ttacacttcc	1560
ctgtggattt	gtggattaat	taggaaaacc	aatagtaatc	acgtctgagc	caaggagctg	1620
gccatttgg	cattcacttc	tgctaaaaac	aggtttttgt	gacttttttt	ttttttaaat	1680
ttaaatacct	gtgttttgga	tttttctgac	aaaattaaga	aaaagaaaaa	aaattatttg	1740
tgggcaaatg	ttaaatTTTT	ttgtttcccc	ttttacctca	attgtatcat	agtactgggt	1800
ttttttgttt	gttttattgt	gtggccaatg	tctttgggca	tgatgctatc	taatcattgt	1860
taatgtgaga	acattttctga	agatgggaaa	gacaaattat	gtagctcaca	aactggttta	1920
ttatatatat	ggataaaaaa	cttttttcat	tgtgggtctta	acacttttat	ataaaaaatga	1980
aaatggaaaa	aaagtcccac	tgaactctct	cttccttctc	cttttctttc	cttccctctc	2040
cagagatgtt	ggtttctaca	gcaaccctag	atataaaaatt	gtggctttta	aaatgcatga	2100
aaccaccttt	aattatccag	aatgaataga	tttgtctttt	cctcaccacc	ttccctccaa	2160
aacatgacat	aaacaatatt	ttttgcactt	gtgatccttg	gcccccttcc	ccattctcaa	2220
caccatccat	ccctctggac	aaaggatcat	acagggtgta	ttagcaagca	agagatactg	2280
aagcgatcaa	acagttttag	ggtggaagcc	attcccagtt	tgagtcttca	tcctgtaagc	2340
ccccaggggc	agtcctgtct	ttactgaact	tcattcctgtt	agatggagag	catgcctggt	2400
taagggatta	ctggctctac	agccaggagc	taattgttca	agaagtgttg	aactttaaaa	2460
agacaagacc	acttgttgaa	atccagcgtg	ctctgtgggt	ttccccctatt	tctcttaata	2520
cttagggaag	aatctgacag	gaagaagcgc	acaggggtgt	gcacaaagaa	aatgacatga	2580
atctttattt	ttcactgcca	gcttcaagga	aagaaaattt	tttctacaat	ttgcatgagg	2640
gattttttta	attgtatgta	ctcatgggtg	taaacccaaa	cgtactgtac	cgtacagaga	2700
aaaggagcaa	aaaaccaagt	cttctgttta	tcctgagggt	ttccacaatg	ttccccctct	2760
gtgagccaag	gaggcaaact	gcacaagctt	gtaaatgggt	cgtcttttaa	atgtacataa	2820
gtggaacatt	taataaaaatg	aggggaaatg	gaaaaaaaaa	aaaaaaaaaa	aaaaaaaaa	2878

<210> 512

<211> 3179

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2993)

<223> n equals a,t,g, or c

<400> 512

gctctctctc	tctctctctc	tctctctgct	ttcctcgcca	gcctgcggnt	gggcttcttc	60
tcagaggaac	gagaatgaat	atgactcaag	cccgggttct	ggtggctgca	gtgggtgggt	120
tggtggctgt	cctgctctac	gcctccatcc	acaagattga	ggagggccat	ctggmtgtgt	180
actwcagggg	aggagcttta	ctaactagcc	ccagtggacc	aggctatcat	atcatgttgc	240
ctttcattac	tacgttcaga	tctgtgcaga	caacactaca	aactgatgaa	gttaaaaatg	300
tgccttgtgg	aacaagtgg	gggggtcatga	tctatatgga	ccgaatagaa	gtgggttaata	360
tgttggctcc	ttatgcagt	tttgatatcg	tgaggaaacta	tactgcagat	tatgacaaga	420
ccttaatctt	caataaaaatc	caccatgagc	tgaaccagtt	ctgcagtgcc	cacacacttc	480
aggaagttta	cattgaattg	tttgatcaaa	tagatgaaaa	cctgaagcaa	gctctgcaga	540
aagacttaaa	cctcatggcc	ccagggtctca	ctatacaggc	tgtgcgtgtt	acaaaaccca	600
aatcccgaga	agccataaga	agaaatTTTT	agttaatgga	ggctgagaag	acaaaactcc	660
ttatagctgc	acagaaacaa	aaggttgtgg	aaaaagaagc	tgagacagag	aggaaaaagg	720
cagttataga	agcagagaag	attgcacaag	tggcaaaaaa	tcggtttcag	cagaaagtga	780

0950082 - 091201

tggaaaaaga	aactgaaaag	cgcattttctg	aaatcgaaga	tgctgcattc	ctggccccgag	840
agaaagcgaa	agcagatgct	gaatattatg	ctgcacacaa	atatgccacc	tcaaacaagc	900
acaagttgac	cccgaatat	ctggagctca	aaaagtacca	ggccattgct	tctaacagta	960
agatctatct	tggcagcaac	atccctaaca	tgttcgtgga	ctcctcatgt	gctttgaaat	1020
attcagatat	taggactgga	agagaaaagct	cactccccctc	taaggaggct	cttgaaccct	1080
ctggagagaa	cgtcatccaa	aacaaaagaga	gcacagggttg	atgcaagagg	tggaaatggt	1140
ctccatatca	agatgtggcc	caaggggtta	agtgggaaca	atcattatac	ggactcttca	1200
gatttacaga	gaacttacac	ttcatctgtt	ccacctctcc	tgcatagtc	ctgggtgctc	1260
cactgattgg	aggatagagc	cagctgtctg	acacacaaat	ggtcttttca	gccacagtct	1320
tatcaagtat	cctatatgta	ttccttttcta	aactgctact	catgaatgag	gaaagtctga	1380
tgctaagata	ctgcctgcac	tggaaatgta	aacactaaat	atataacaag	ctgtgttttc	1440
ctaagctgag	atctgttgaa	taatgtttac	attcgtcccc	cggggaaatg	tatgtctcagc	1500
caccattcaa	gagatgactg	agaaggagat	ggtaagttca	agaagactga	ttgcacctgg	1560
gaccagggcc	ctttcttttg	gatccagtcc	cagccttcat	ccatgtgatt	aagatccagg	1620
ccgctgaagt	tccccaggaa	atgatcttcc	acttgagcaa	ccttttactt	gatacgattt	1680
gcacctttct	gttttctctg	agtcagggtg	gtggcctgca	gggacctgag	ctttgtctacc	1740
caaccagatt	cctcatagag	attcctaata	actagtttct	tgtattcata	aactcagaga	1800
tacagagggc	ttggtttgaa	gttgggggtga	gatgaaacct	ttgctctgag	ccaaagctct	1860
ggggccttgc	attccctgca	ttgggttgat	gactgtcagc	atcactgccg	cagcatgctt	1920
gactaaggta	cctgggtttta	gccacagcca	cctccttgta	tgttaccttt	cagctctggc	1980
caaggtggg	acaggggttt	aaccacaaat	aggagcagca	tgcaattcct	agtgaattgc	2040
tgcacagtat	tgtatcataa	ttacagggaag	ttttattttt	taaaactgga	tctgggggtat	2100
attcatttgc	cccatcacct	ctgtctaaag	gcccaggtcc	tagggctgcc	atggtcacaa	2160
gcacactgat	gtcctttaag	attgtttatc	tggagcccac	atagtgtgga	acaaaaagtc	2220
acctagaaa	catccttggt	catcattgtc	tccttcccac	ctggcccaga	gatgtctaaa	2280
tccaagttgt	ttctccagct	gtcacctccc	ccaggagatc	aggattccac	tgacgtcctg	2340
ggcagccagt	gaattttaatt	ttccatgaga	aacaacagag	ttaacctgtg	gcattaggag	2400
acctaactca	tgtggaccct	ttttttcctt	cagtttaact	tttctggagc	agtgtgctgc	2460
gtagttcggc	ctgagtttgt	gcagcttgtt	aagacaactc	ttgtgtacgc	tatgttgaag	2520
ctcaacaaaa	aagtcatggg	accacttcta	gaaatctttc	agctgtcagg	cctgtcagtc	2580
tcattgacagt	ttgttggttg	tgccaaacac	tttattttgg	aaaggaaaagc	ccagatttga	2640
atgggtcttt	cccctgggccc	ttatcctata	gaggcatttg	taatatggag	aaaataattt	2700
ttcatttttg	ctcatttaaat	tctataaaat	ctctttataa	atgaattttg	tgttcttttag	2760
ttctccttaa	aagaactttt	gaattataaa	aataaaaatct	ttacctgtcg	aattgtttgct	2820
gcagatgatt	gttgtggaaa	atctggatca	ttgacctctg	tgctttcatt	cctagagatg	2880
ttttatagtt	acatgagcaa	aagctgttgc	cccaaagtga	tggccctgga	ggcggggctg	2940
aggaacaggg	aaatgccgct	gtgaagtctt	aaagcacttc	tgcttaaaact	ccnatgtgtg	3000
aggagtgtgc	ctcctgtgct	cctctcagct	ctgaggctgg	ccgtcttttcg	gggtgttctt	3060
tttggcaaat	atacactgta	atcttgagtc	taaatttata	tgttgaaatg	ctaccttttt	3120
taaaataaga	aactaaataa	aattatttta	ctatcaaaaa	aaaaaaaaaa	aaactcgag	3179

<210> 513

<211> 1411

<212> DNA

<213> Homo sapiens

<400> 513

ggcacgagct	gtaccaaggc	ttcagagtga	gcagggggac	atctggatag	gttagccagg	60
gccacagaga	gaagagctgc	ttacacctga	attgtttcac	ccttttcaag	aacagggttg	120
tccttctccc	catctggatc	cttgggctag	atctctgccg	aggggctccg	tcaagtcctg	180
caaggctaga	gaaggggagcc	ccacatcatt	tccactttca	aagagggaag	atgctcgtca	240
ttcaaattac	ttctgttgat	ttccatggta	ttccccctgtc	cgtcccacaa	tctcttacca	300
ggcgtcaatg	cacatgcagg	ggatggaaag	aggatgagcc	gatgagcaga	ctttgcatta	360
atcaaggaga	aagaaaaagc	agatggaagg	aggtaggtag	atggagaaag	caacagctcc	420
ttttagccct	tgatgacggc	cctgaaggcc	tgtctctttt	agtgactcct	ctttgggtcc	480
tcttccccta	ctctcagtg	actaggttcc	tcataattaat	tccctgctgt	gagtttggct	540
ccttgtgctg	ggcaattcag	tcacctcag	aaagagcaaa	gttgggtcttg	gaattaagggt	600
gcagggtggg	aaaaagagga	ctcagctaga	cacgaagaaa	ggctctcttc	ccagtctaaag	660
cccttctacc	gtaaggggca	ttttatcaag	acagccaccc	aactccccat	cccatctccc	720
ctcctttgta	gaaacagcat	ttgactcacc	aagcctttct	ctcccttttc	gtgtgtcttg	780
cttagtttct	ggattgagag	aattttctatc	cttgcctccc	cgaactctaa	aagagcttct	840

tttgaaaact ggggagtatc aggcctacct ctacatgtgc aacagtgccca ggattcaaag 900
 gaaaagctca ttccagcctc tgccctcttg gagatggttc agagtgccac atagggactg 960
 aaagagggtg tctgaatcct tcaggaatgc tttaagtgc attggtgaaa agagataaag 1020
 aaaaggaaaa caatggaatt ggggtttctaa ggtccctgga aatatcctgg ggggtctaatt 1080
 gagaaagaaa ataagaggaa atttgaagac tcacttcttc cttcatctga atccactcag 1140
 atggcaactg atctctgtcc caaggaccct ctaccccacc caattcataa tcactctcaga 1200
 ttagaaaagg cagaattcct tcccattctc aaatcagcat ttgggttagg ggcccctaag 1260
 ttacgtgagc atgttagaaa tgtgacccca ggcctcaaga gagaggctct gccacatgag 1320
 aggagatagg aatcatgact gaaaggggat tagcacagaa cagagaaaac tgatttgata 1380
 gacaaatcaa atagaaaaaa aaaaaaaaaa a 1411

<210> 514
 <211> 1065
 <212> DNA
 <213> Homo sapiens

<400> 514
 tttttttttt tttttttttt ttttcccagg agtcaacact ttattttgtt caggccaacc 60
 acactgggag cccagcatcc ccgcaggata atgcctctgt gggctcatct cgcctcttga 120
 ggggtggcat gctggctggc tctggccacc ggggaggcct ggccagtctc tctgtctcca 180
 agttattgta gagtcgggaa gtcttcaagg gcagcttcaa ggaggctgaa ctgggtccta 240
 mttctggagg tatttcttca ttatgctcgc aacatcgtcg tcttctctcc ccgtccctgg 300
 ctctctccgc tcgggggacg ttcgctcgcc accgtcaccg gcaagtctgt ggattcctgg 360
 tcgacttttg atgctgtcag cacttttgaa ggacacgat gagccggagg atgaggacga 420
 gtcagacagg tgagcgggat cctccttggg ctccgggctc ttcttcaaaa tggctctgat 480
 ccccagagaa aaggaacggt tagcctcttc cgtttcaaaag tggatgcttg aacgctgtga 540
 accgtcttgc ccaccttttg ctgatccagc caaggaggta ggtgtctggg gcttccggat 600
 agctgggagg aagtcacgca agtccacttt ggtcttgctg tcgtagtcga ggcttgggag 660
 tttccagctg aatgggtcac tgccatagagg ttcttccatc aggtgggcaa actggcggtt 720
 ctggaaaaca agcggtcct tccaagggtc tggacagccc gcatcgtcca cagaggactc 780
 cagacaccgc ctccgaggac gcagtgtggg cgacaacagc atgtccctgg gtgtggtcgg 840
 agagctcagt tttctcccca tgctcggtct ggattctaag agggactcgc aggaactgaa 900
 tcgggttttc gacttttcgg ggagtagggt tgtgccccca acaccgtctg aagagatgca 960
 tttgaggctg gtggacctca agagaccacc agcggcccct tcgatttcca ggggtgactt 1020
 tgccccaacc ctccagcgaga ggtttccctc gtcactgctc gtgcc 1065

<210> 515
 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 515
 Leu Pro Ala Ser Gly Cys His Gly Pro Ala Ala Ser Ser Tyr Ser Ala
 1 5 10 15
 Ser Ala Glu Pro Ala Arg Val Arg Ala Leu Val Tyr Gly His His Gly
 20 25 30
 Asp Pro Ala Lys Val Val Glu Leu Lys Asn Leu Glu Leu Ala Ala Val
 35 40 45
 Arg Gly Ser Asp Val Arg Val Lys Met Leu Ala Ala Pro Ile Asn Pro
 50 55 60
 Ser Asp Ile Asn Met Ile Gln Gly Asn Tyr Gly Leu Leu Pro Glu Leu
 65 70 75 80
 Pro Ala Val Gly Gly Asn Glu Gly Val Ala Gln Val Val Ala Val Gly
 85 90 95
 Ser Asn Val Thr Gly Leu Lys Pro Gly Asp Trp Val Ile Pro Ala Asn

100

105

110

Ala Gly Leu Glu Ser Arg Ser Val Ala Gln Ala Gly Ala Ile Leu Ala
 115 120 125

His Cys Asn Leu Gln Pro Pro Pro His Arg Arg Met Ala
 130 135 140

<210> 516

<211> 6

<212> PRT

<213> Homo sapiens

<400> 516

Met Trp Pro Ala Pro Ser
 1 5

<210> 517

<211> 18

<212> PRT

<213> Homo sapiens

<400> 517

Leu Gly Leu Leu Val Pro Leu Glu Pro His His Val Leu Gly Val Glu
 1 5 10 15

Ser Pro

<210> 518

<211> 78

<212> PRT

<213> Homo sapiens

<400> 518

Met Ala Leu Lys Ser Leu Asn Thr His Thr Lys Ser Phe Phe Thr Phe
 1 5 10 15

Ile Leu Ile Leu Leu Asn Leu Ser Ser Cys Lys Ser Asn Met Met His
 20 25 30

Phe Lys Met Glu Ser Leu Pro Pro Thr Ser Leu Thr Pro Phe Leu Leu
 35 40 45

Cys Leu Phe Phe Leu Pro Ser Leu Pro Leu Val Ser Pro Leu Pro Pro
 50 55 60

Ser Leu Phe Pro Ser Phe Leu Ile Ser Phe Ser Phe Leu Pro
 65 70 75

<210> 519

<211> 25

<212> PRT

<210> 522
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 522
 Met Leu Met Met Gly Thr Leu Val Leu Ile Leu Leu His Asp Val Ile
 1 5 10 15
 Val Thr Phe Thr Glu Phe Tyr Asn Ala Gln Asn Leu Lys Trp
 20 25 30

<210> 523
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 523
 Phe Leu Leu Ser Phe Cys Ala Phe Pro Cys Val Phe Met Phe Trp Val
 1 5 10 15
 Ser Val Leu His
 20

<210> 524
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 524
 Met Ile Tyr Leu Ser Ile Tyr Leu Leu Val Asn Ile Leu Ala Val Ser
 1 5 10 15
 Asn Ser Trp Pro Ser
 20

<210> 525
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 525
 Met Pro Trp Cys Leu Leu Pro Leu Cys Leu His Ile Leu Cys Val Ser
 1 5 10 15
 Ala

<210> 526
 <211> 55
 <212> PRT

<213> Homo sapiens

<400> 526

Met Val Leu Ala Ile Phe Gln Asn Ala Leu Ser Phe Thr Ile Ser Ala
1 5 10 15

Leu Leu Phe Ile Leu Ser Phe Tyr Phe Gly Thr Ala Ala Leu Trp Leu
20 25 30

Phe Ile Cys Gln Asn Cys His Phe Leu Ser Ile Gln Leu Leu Cys Pro
35 40 45

Leu Phe His Glu Ser Pro Asn
50 55

<210> 527

<211> 11

<212> PRT

<213> Homo sapiens

<400> 527

Met His Gln Pro Leu Cys Ile Tyr Cys Phe Ser
1 5 10

<210> 528

<211> 54

<212> PRT

<213> Homo sapiens

<400> 528

Met Thr Glu Asn Pro Lys Val Gln Met Met Leu Ile Ile Val Val Pro
1 5 10 15

Leu Gln Leu Phe Ile Asn Pro Val Gln His Pro Ile Gln Gln Val Arg
20 25 30

Cys Ile His Leu His Leu Cys His Gly Trp Ala Leu Asp Arg Leu Ala
35 40 45

Leu Glu Leu Val Cys Leu
50

<210> 529

<211> 10

<212> PRT

<213> Homo sapiens

<400> 529

Met Thr Arg Cys Leu Trp Arg Thr Leu Gln
1 5 10

<210> 530

<211> 13

<212> PRT
<213> Homo sapiens

<400> 530

Met Lys Thr Thr Cys Leu Ser Ser Thr Leu Val Arg Met
1 5 10

<210> 531

<211> 38

<212> PRT

<213> Homo sapiens

<400> 531

Val Leu Leu Ile Leu Lys Leu Leu Leu Leu Lys Gly Ala Arg Ser Ile
1 5 10 15

Gln Ile Phe Met Phe Arg Cys Leu Ile Ala Phe Ala Leu Ile Thr Lys
20 25 30

Leu Gln Asn Tyr Met Asp
35

<210> 532

<211> 94

<212> PRT

<213> Homo sapiens

<400> 532

Met Arg Thr Ile Tyr Ser Ala Phe Phe Phe Leu Ser Leu Cys Leu Ser
1 5 10 15

Val Leu Leu Ser Ser Thr Val Phe Asp Asp Trp His Pro Ile Ser Ile
20 25 30

Ser Trp Val Gln Asn Phe Gly Leu Thr Pro Ser Phe Asp Val Gln Val
35 40 45

Pro Gln Thr Leu Arg Cys Phe Phe Arg Ser Gly Cys Arg Trp His Pro
50 55 60

Leu Asn Leu Leu Gln Phe Lys Leu Ser Thr Phe Leu Arg Ile Ile Ser
65 70 75 80

Phe Tyr Leu Ser Phe Cys Ser Glu Lys Arg Leu Gln His Glu
85 90

<210> 533

<211> 359

<212> PRT

<213> Homo sapiens

<400> 533

Met Met Val Ile Phe Leu Val Gly Leu Val Ser Met Ile Leu Met Arg
1 5 10 15

FOI b7D "2800550"

Thr Leu Arg Lys Asp Tyr Ala Arg Tyr Ser Lys Glu Glu Glu Met Asp
 20 25 30
 Asp Met Asp Arg Asp Leu Gly Asp Glu Tyr Gly Trp Lys Gln Val His
 35 40 45
 Gly Asp Val Phe Arg Pro Ser Ser His Pro Leu Ile Phe Ser Ser Leu
 50 55 60
 Ile Gly Ser Gly Cys Gln Ile Phe Ala Val Ser Leu Ile Val Ile Ile
 65 70 75 80
 Val Ala Met Ile Glu Asp Leu Tyr Thr Glu Arg Gly Ser Met Leu Ser
 85 90 95
 Thr Ala Ile Phe Val Tyr Ala Ala Thr Ser Pro Val Asn Gly Tyr Phe
 100 105 110
 Gly Gly Ser Leu Tyr Ala Arg Gln Gly Gly Arg Arg Trp Ile Lys Gln
 115 120 125
 Met Phe Ile Gly Ala Phe Leu Ile Pro Ala Met Val Cys Gly Thr Ala
 130 135 140
 Phe Phe Ile Asn Phe Ile Ala Ile Tyr Tyr His Ala Ser Arg Ala Ile
 145 150 155 160
 Pro Phe Gly Thr Met Val Ala Val Cys Cys Ile Cys Phe Phe Val Ile
 165 170 175
 Leu Pro Leu Asn Leu Val Gly Thr Ile Leu Gly Arg Asn Leu Ser Gly
 180 185 190
 Gln Pro Asn Phe Pro Cys Arg Val Asn Ala Val Pro Arg Pro Ile Pro
 195 200 205
 Glu Lys Lys Trp Phe Met Glu Pro Ala Val Ile Val Cys Leu Gly Gly
 210 215 220
 Ile Leu Pro Phe Gly Ser Ile Phe Ile Glu Met Tyr Phe Ile Phe Thr
 225 230 235 240
 Ser Phe Trp Ala Tyr Lys Ile Tyr Tyr Val Tyr Gly Phe Met Met Leu
 245 250 255
 Val Leu Val Ile Leu Cys Ile Val Thr Val Cys Val Thr Ile Val Cys
 260 265 270
 Thr Tyr Phe Leu Leu Asn Ala Glu Asp Tyr Arg Trp Gln Trp Thr Ser
 275 280 285
 Phe Leu Ser Ala Ala Ser Thr Ala Ile Tyr Val Tyr Met Tyr Ser Phe
 290 295 300
 Tyr Tyr Tyr Phe Phe Lys Thr Lys Met Tyr Gly Leu Phe Gln Thr Ser
 305 310 315 320
 Phe Tyr Phe Gly Tyr Met Ala Val Phe Ser Thr Ala Leu Gly Ile Met
 325 330 335
 Cys Gly Ala Ile Gly Tyr Met Gly Thr Ser Ala Phe Val Arg Lys Ile

FOIb0-28005650

350

<220>
<221> SITE

<222> (588)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (832)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 535

Val	Glu	Leu	Pro	Phe	Val	Thr	His	Leu	Phe	Leu	Pro	Leu	Val	Phe	Leu
1				5					10					15	

Thr	Gly	Leu	Cys	Ser	Pro	Phe	Asn	Leu	Asp	Glu	His	His	Pro	Arg	Leu
		20						25					30		

Phe	Pro	Gly	Pro	Pro	Glu	Ala	Glu	Phe	Gly	Tyr	Ser	Val	Leu	Gln	His
		35					40						45		

Val	Gly	Gly	Gly	Gln	Arg	Trp	Met	Leu	Val	Gly	Ala	Pro	Trp	Asp	Gly
	50					55					60				

Pro	Ser	Gly	Asp	Arg	Arg	Gly	Asp	Val	Tyr	Arg	Cys	Pro	Val	Gly	Gly
	65				70					75					80

Ala	His	Asn	Ala	Pro	Cys	Ala	Lys	Gly	His	Leu	Gly	Asp	Tyr	Gln	Leu
				85					90					95	

Gly	Asn	Ser	Ser	His	Pro	Ala	Val	Asn	Met	His	Leu	Gly	Met	Ser	Leu
		100						105					110		

Leu	Glu	Thr	Asp	Gly	Asp	Gly	Gly	Phe	Met	Ala	Cys	Ala	Pro	Leu	Trp
		115					120					125			

Ser	Arg	Ala	Cys	Gly	Ser	Ser	Val	Phe	Ser	Ser	Gly	Ile	Cys	Ala	Arg
	130					135					140				

Val	Asp	Ala	Ser	Phe	Gln	Pro	Gln	Gly	Ser	Leu	Ala	Pro	Thr	Ala	Gln
	145				150					155					160

Arg	Cys	Pro	Thr	Tyr	Met	Asp	Val	Val	Ile	Val	Leu	Asp	Gly	Ser	Asn
				165					170					175	

Ser	Ile	Tyr	Pro	Trp	Ser	Glu	Val	Gln	Thr	Phe	Leu	Arg	Arg	Leu	Val
			180					185					190		

Gly	Lys	Leu	Phe	Ile	Asp	Pro	Glu	Gln	Ile	Gln	Val	Gly	Leu	Val	Gln
		195					200					205			

Tyr	Gly	Glu	Ser	Pro	Val	His	Glu	Trp	Ser	Leu	Gly	Asp	Phe	Arg	Thr
	210					215					220				

Lys	Glu	Glu	Val	Val	Arg	Ala	Ala	Lys	Asn	Leu	Ser	Arg	Arg	Glu	Gly
	225				230					235				240	

Arg	Glu	Thr	Lys	Thr	Ala	Gln	Ala	Ile	Met	Val	Ala	Cys	Thr	Glu	Gly
				245					250					255	

Phe	Ser	Gln	Ser	His	Gly	Gly	Arg	Pro	Glu	Ala	Ala	Arg	Leu	Leu	Val
			260					265					270		

Val	Val	Thr	Asp	Gly	Glu	Ser	His	Asp	Gly	Glu	Glu	Leu	Pro	Ala	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

0950082-091201

275					280					285					
Leu	Lys	Ala	Cys	Glu	Ala	Gly	Arg	Val	Thr	Arg	Tyr	Gly	Ile	Ala	Val
290					295					300					
Leu	Gly	His	Tyr	Leu	Arg	Arg	Gln	Arg	Asp	Pro	Ser	Ser	Phe	Leu	Arg
305					310					315					320
Glu	Ile	Arg	Thr	Ile	Ala	Ser	Asp	Pro	Asp	Glu	Arg	Phe	Phe	Phe	Asn
				325					330					335	
Val	Thr	Asp	Glu	Ala	Ala	Leu	Thr	Asp	Ile	Val	Asp	Ala	Leu	Gly	Asp
			340					345					350		
Arg	Ile	Phe	Gly	Leu	Glu	Gly	Ser	His	Ala	Glu	Asn	Glu	Ser	Ser	Phe
		355					360					365			
Gly	Leu	Glu	Met	Ser	Gln	Ile	Gly	Phe	Ser	Thr	His	Arg	Leu	Lys	Asp
370					375					380					
Gly	Ile	Leu	Phe	Gly	Met	Val	Gly	Ala	Tyr	Asp	Trp	Gly	Gly	Ser	Val
385					390					395					400
Leu	Trp	Leu	Glu	Gly	Gly	His	Arg	Leu	Phe	Pro	Pro	Arg	Met	Ala	Leu
				405					410					415	
Glu	Asp	Glu	Phe	Pro	Pro	Ala	Leu	Gln	Asn	His	Ala	Xaa	Tyr	Leu	Gly
			420					425					430		
Tyr	Ser	Xaa	Ser	Xaa	Met	Leu	Leu	Arg	Gly	Gly	Xaa	Arg	Leu	Xaa	Leu
		435					440					445			
Ser	Gly	Ala	Xaa	Arg	Phe	Arg	His	Arg	Gly	Lys	Val	Ile	Ala	Phe	Gln
	450					455					460				
Leu	Lys	Lys	Asp	Gly	Ala	Val	Arg	Val	Ala	Gln	Ser	Leu	Gln	Gly	Glu
465					470					475					480
Gln	Ile	Gly	Ser	Tyr	Phe	Gly	Ser	Glu	Leu	Cys	Pro	Leu	Asp	Thr	Asp
				485				490						495	
Arg	Asp	Gly	Thr	Thr	Asp	Val	Leu	Leu	Val	Ala	Ala	Pro	Met	Phe	Leu
			500				505						510		
Gly	Pro	Gln	Asn	Lys	Glu	Thr	Gly	Arg	Val	Tyr	Val	Tyr	Leu	Val	Gly
		515					520					525			
Gln	Gln	Ser	Leu	Leu	Thr	Leu	Gln	Gly	Thr	Leu	Gln	Pro	Glu	Pro	Pro
	530					535					540				
Gln	Asp	Ala	Arg	Phe	Gly	Phe	Ala	Met	Gly	Ala	Leu	Pro	Asp	Leu	Asn
545					550					555					560
Gln	Asp	Gly	Phe	Ala	Asp	Val	Ala	Val	Gly	Ala	Pro	Leu	Glu	Asp	Gly
				565					570					575	
His	Gln	Gly	Ala	Leu	Tyr	Leu	Tyr	His	Gly	Thr	Xaa	Ser	Gly	Val	Arg
			580				585						590		
Pro	His	Pro	Ala	Gln	Arg	Ile	Ala	Ala	Ala	Ser	Met	Pro	His	Ala	Leu
		595					600					605			

FOI b 7 - 280560

Ser Tyr Phe Gly Arg Ser Val Asp Gly Arg Leu Asp Leu Asp Gly Asp
 610 615 620
 Asp Leu Val Asp Val Ala Val Gly Ala Gln Gly Ala Ala Ile Leu Leu
 625 630 635 640
 Ser Ser Arg Pro Ile Val His Leu Thr Pro Ser Leu Glu Val Thr Pro
 645 650 655
 Gln Ala Ile Ser Val Val Gln Arg Asp Cys Arg Arg Arg Gly Gln Glu
 660 665 670
 Ala Val Cys Leu Thr Ala Ala Leu Cys Phe Gln Val Thr Ser Arg Thr
 675 680 685
 Pro Gly Arg Trp Asp His Gln Phe Tyr Met Arg Phe Thr Ala Ser Leu
 690 695 700
 Asp Glu Trp Thr Ala Gly Ala Arg Ala Ala Phe Asp Gly Ser Gly Gln
 705 710 715 720
 Arg Leu Ser Pro Arg Arg Leu Arg Leu Ser Val Gly Asn Val Thr Cys
 725 730 735
 Glu Gln Leu His Phe His Val Leu Asp Thr Ser Asp Tyr Leu Arg Pro
 740 745 750
 Val Ala Leu Thr Val Thr Phe Ala Leu Asp Asn Thr Thr Lys Pro Gly
 755 760 765
 Pro Val Leu Asn Glu Gly Ser Pro Thr Ser Ile Gln Lys Leu Val Pro
 770 775 780
 Phe Ser Lys Asp Cys Gly Pro Asp Asn Glu Cys Val Thr Asp Leu Val
 785 790 795 800
 Leu Gln Val Asn Met Asp Ile Arg Gly Ser Arg Lys Ala Pro Phe Val
 805 810 815
 Val Arg Gly Gly Arg Arg Lys Val Leu Val Ser Thr Thr Leu Glu Xaa
 820 825 830
 Arg Lys Glu Asn Ala Tyr Asn Thr Ser Leu Ser Leu Ile Phe Ser Arg
 835 840 845
 Asn Leu His Leu Ala Ser Leu Thr Pro Gln Arg Glu Ser Pro Ile Lys
 850 855 860
 Val Glu Cys Ala Ala Pro Ser Ala His Ala Arg Leu Cys Ser Val Gly
 865 870 875 880
 His Pro Val Phe Gln Thr Gly Ala Lys Val Thr Phe Leu Leu Glu Phe
 885 890 895
 Glu Phe Ser Cys Ser Ser Leu Leu Ser Gln Val Phe Val Lys Leu Thr
 900 905 910
 Ala Ser Ser Asp Ser Leu Glu Arg Asn Gly Thr Leu Gln Asp Asn Thr
 915 920 925

0950062-091201

Ala Gln Thr Ser Ala Tyr Ile Gln Tyr Glu Pro His Leu Leu Phe Ser
930 935 940

Ser Glu Ser Thr Leu His Arg Tyr Glu Val His Pro Tyr Gly Thr Leu
945 950 955 960

Pro Val Gly Pro Gly Pro Glu Phe Lys Thr Thr Leu Arg Val Gln Asn
965 970 975

Leu Gly Cys Tyr Val Val Ser Gly Leu Ile Ile Ser Ala Leu Leu Pro
980 985 990

Ala Val Ala His Gly Gly Asn Tyr Phe Leu Ser Leu Ser Gln Val Ile
995 1000 1005

Thr Asn Asn Ala Ser Cys Ile Val Gln Asn Leu Thr Glu Pro Pro Gly
1010 1015 1020

Pro Pro Val His Pro Glu Glu Leu Gln His Thr Asn Arg Leu Asn Gly
1025 1030 1035 1040

Ser Asn Thr Gln Cys Gln Val Val Arg Cys His Leu Gly Gln Leu Ala
1045 1050 1055

Lys Gly Thr Glu Val Ser Val Gly Leu Leu Arg Leu Val His Asn Glu
1060 1065 1070

Phe Phe Arg Arg Ala Lys Phe Lys Ser Leu Thr Val Val Ser Thr Phe
1075 1080 1085

Glu Leu Gly Thr Glu Glu Gly Ser Val Leu Gln Leu Thr Glu Ala Ser
1090 1095 1100

Arg Trp Ser Glu Ser Leu Leu Glu Val Val Gln Thr Arg Pro Ile Leu
1105 1110 1115 1120

Ile Ser Leu Trp Ile Leu Ile Gly Ser Val Leu Gly Gly Leu Leu Leu
1125 1130 1135

Leu Ala Leu Leu Val Phe Cys Leu Trp Lys Leu Gly Phe Phe Ala His
1140 1145 1150

Lys Lys Ile Pro Glu Glu Glu Lys Arg Glu Glu Lys Leu Glu Gln
1155 1160 1165

<210> 536

<211> 23

<212> PRT

<213> Homo sapiens

<400> 536

Met Ser Val Leu Leu Leu Ser Ser Ser Cys Gly Ala Ala Phe Ala Val
1 5 10 15

Leu Cys Pro Pro His Cys Glu
20

0995005660-09160

<210> 537
 <211> 3
 <212> PRT
 <213> Homo sapiens

<400> 537
 Gly Tyr Ser
 1

<210> 538
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 538
 Met Asp Lys Cys Leu Ile Ile Leu Cys Ile Phe Leu Leu Phe Val Lys
 1 5 10 15
 Gln Leu Ile Ile Phe Lys Thr Ile Leu Lys Gly Met Lys Val Gly Ile
 20 25 30
 Thr Gly Arg Gln Leu Ser Ile Arg Tyr Lys Asp Glu Phe Ser Ser Arg
 35 40 45
 Val Arg Cys Asn Lys Asp Ile Ala Thr Leu Tyr Pro Tyr Val Tyr Thr
 50 55 60
 Ser Asn Phe Tyr
 65

<210> 539
 <211> 42
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 539
 Met Leu Leu Phe Trp Ala Ile Phe Ala Ser Tyr Val Ser Ile Gln Ser
 1 5 10 15
 Met His Phe Arg Cys Cys Gly Arg Glu Ile Phe Gly Gly Ala Gly Thr
 20 25 30
 Ser Lys Thr Gly Ile Xaa Leu Lys Ser Gln
 35 40

<210> 540
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 540

Met Val Gly Asn Ala Phe Leu Trp Leu Phe Val His Leu Glu Ser Val
 1 5 10 15

Tyr Val Gln Leu Ser Ser Ala Ile Ser Trp Ala Met Gly Asn Ile Ser
 20 25 30

Val Lys Thr Asn Phe
 35

<210> 541

<211> 17

<212> PRT

<213> Homo sapiens

<400> 541

Met Thr Cys Phe Cys Gln Ile Lys Tyr Arg Tyr His Trp Gly Phe Leu
 1 5 10 15

Phe

<210> 542

<211> 42

<212> PRT

<213> Homo sapiens

<400> 542

Met Glu Lys Leu Leu Gln His Leu Gly Val Val Phe Leu Leu Asp Ile
 1 5 10 15

Cys Arg Ser Tyr Leu Lys Val Thr Arg Asn Pro Glu Leu Ser Ile Cys
 20 25 30

Glu Ala Ile Ser Ala Asn Ala Glu Leu Thr
 35 40

<210> 543

<211> 19

<212> PRT

<213> Homo sapiens

<400> 543

Met Tyr Ala Phe Leu Gln Gly Phe Ile Phe Leu Leu Leu Phe Phe Phe
 1 5 10 15

Ile Ala Glu

<210> 544

<211> 124

<212> PRT

<213> Homo sapiens

<400> 544

Met Ala Asp Thr Ala Cys Asp Ser Asp Val Leu Leu Gln Leu Val Leu
 1 5 10 15

Val Trp Leu Gly Glu Val Leu Gly Val Ile Gly Asp Cys Pro Glu Leu
 20 25 30

Val Gln Arg Ser Phe Leu Val Ala Ser Val Leu Pro Gly Pro Asp Gly
 35 40 45

Asn Ile Asn Ser Pro Thr Arg Asn Ala Asp Met Gln Glu Glu Leu Ile
 50 55 60

Ala Ser Leu Glu Glu Gln Leu Lys Leu Ser Gly Glu His Ser Glu Ser
 65 70 75 80

Ser Thr Pro Arg Pro Arg Ser Ser Pro Glu Glu Thr Ile Glu Pro Glu
 85 90 95

Ser Leu His Gln Leu Phe Glu Gly Glu Ser Glu Thr Glu Ser Phe Tyr
 100 105 110

Gly Phe Glu Glu Ala Asp Leu Asp Leu Met Glu Ile
 115 120

<210> 545

<211> 29

<212> PRT

<213> Homo sapiens

<400> 545

Met Lys Ser Val Leu Ser Ile Cys Ser Phe Leu Gly Cys Ala Leu Ser
 1 5 10 15

Ala Val Ser Lys Lys Ser Leu Pro Asn Gln Arg Leu Gln
 20 25

<210> 546

<211> 29

<212> PRT

<213> Homo sapiens

<400> 546

Met Lys Ser Val Leu Ser Ile Cys Ser Phe Leu Gly Cys Ala Leu Ser
 1 5 10 15

Ala Val Ser Lys Lys Ser Leu Pro Asn Gln Arg Leu Gln
 20 25

<210> 547

<211> 2

<212> PRT

<213> Homo sapiens

<400> 547
Gly Ala
1

<210> 548
<211> 76
<212> PRT
<213> Homo sapiens

<400> 548
Leu Val Pro Leu Leu Pro Gly Pro Leu Val Arg Phe Cys Phe Cys Leu
1 5 10 15
His Val Gly Val Gly Ser Ser Val Gly Gly Gly Ala Pro Cys Pro Gly
20 25 30
Cys Arg Pro Ala Ser Cys Ala Arg Ala Pro Phe Arg Val Gly Leu Asp
35 40 45
His Pro Ser Pro His Gln Gly Pro His Cys Glu Val Ile Thr Ala Leu
50 55 60
Asn Pro Pro Leu Leu Phe Tyr Leu Leu Asn Leu Ile
65 70 75

<210> 549
<211> 58
<212> PRT
<213> Homo sapiens

<400> 549
Glu Phe Phe Leu Phe Ser Leu Ser Phe Ser Leu Leu Pro Ser Cys Leu
1 5 10 15
Ser Phe Ser Pro Phe Phe Ser Leu Pro Phe Pro Ser Pro Pro Ser Leu
20 25 30
Pro Pro Ser Leu Pro Ser Phe Leu Pro Ser Phe Leu Val Leu Phe Cys
35 40 45
Asn Pro Gly Cys Ser Ala Met Ala Lys Ser
50 55

<210> 550
<211> 203
<212> PRT
<213> Homo sapiens

<400> 550
Met Gly Ile Lys Thr Ala Leu Pro Ala Ala Glu Leu Gly Leu Tyr Ser
1 5 10 15
Leu Val Leu Ser Gly Ala Leu Ala Tyr Ala Gly Arg Gly Leu Leu Glu
20 25 30

Ala Ser Gln Asp Gly Ala His Arg Lys Ala Phe Arg Glu Ser Val Arg
35 40 45

Pro Gly Trp Glu Tyr Ile Gly Arg Lys Met Asp Val Ala Asp Phe Glu
50 55 60

Trp Val Met Trp Phe Thr Ser Phe Arg Asn Val Ile Ile Phe Ala Leu
65 70 75 80

Ser Gly His Val Leu Phe Ala Lys Leu Cys Thr Met Val Ala Pro Lys
85 90 95

Leu Arg Ser Trp Met Tyr Ala Val Tyr Gly Ala Leu Ala Val Met Gly
100 105 110

Thr Met Gly Pro Trp Tyr Leu Leu Leu Leu Gly His Cys Val Gly
115 120 125

Leu Tyr Val Ala Ser Leu Leu Gly Gln Pro Trp Leu Cys Leu Gly Leu
130 135 140

Gly Leu Ala Ser Leu Ala Ser Phe Lys Met Asp Pro Leu Ile Ser Trp
145 150 155 160

Gln Ser Gly Phe Val Thr Gly Thr Phe Asp Leu Gln Glu Val Leu Phe
165 170 175

His Gly Gly Ser Ser Phe Thr Cys Cys Val Ala Pro Ala Leu His Trp
180 185 190

Arg Ala Val Pro Thr Leu Thr Ala Thr Thr Pro
195 200

<210> 551
<211> 136
<212> PRT
<213> Homo sapiens

<400> 551
Met Ala Gly Trp Gly Leu Val Asp Val Ser Gly Ala Pro Glu Pro Trp
1 5 10 15

Arg Ile Pro His Gly Ile Pro Leu Pro Ala Leu Ser Gly Leu Cys Gly
20 25 30

Val Arg Arg Ser Pro Ser Ser Arg Phe Ser Phe Phe Pro Pro Gln Gln
35 40 45

Arg Asn Trp Arg Lys Asp Ile Lys Leu Ser Ala Val Asp Leu Ser Ala
50 55 60

Glu Ile Phe Pro Glu Ser Met Val Val Leu Asn Tyr Leu His Val Ser
65 70 75 80

Ser Ile Phe Asn Ser Gly Val Gly Leu Phe Leu Ile Ser Ser Gln Lys
85 90 95

Cys Ser Ala Leu Gly Glu Gly Thr Ser Pro Leu Ala Cys His Phe Pro
100 105 110

<400> 555

Met Gln Ser Trp Leu Trp Ala Ala Val Cys Ser Ala Gly Cys Pro Cys
 1 5 10 15

Phe Trp Gly Met Lys Ala Leu
 20

<210> 556

<211> 31

<212> PRT

<213> Homo sapiens

<400> 556

Met Leu Ser Pro Phe Thr Leu Leu Leu Ser Tyr Ala Thr Ile Val His
 1 5 10 15

Phe Cys Met Pro Leu Ile Pro Phe Leu Leu Ile Leu Thr Ile Lys
 20 25 30

<210> 557

<211> 733

<212> PRT

<213> Homo sapiens

<400> 557

Met Gln Lys Pro Thr Asp Asn Ala Gln Phe Thr Cys His Tyr Gly Thr
 1 5 10 15

Thr Tyr Glu Ile Met Thr Val Pro Asn Asp Pro Tyr Thr Phe Leu Ser
 20 25 30

Cys Gly Glu Asp Gly Thr Val Arg Trp Phe Asp Thr Arg Ile Lys Thr
 35 40 45

Ser Cys Thr Lys Glu Asp Cys Lys Asp Asp Ile Leu Ile Asn Cys Arg
 50 55 60

Arg Ala Ala Thr Ser Val Ala Ile Cys Pro Pro Ile Pro Tyr Tyr Leu
 65 70 75 80

Ala Val Gly Cys Ser Asp Ser Ser Val Arg Ile Tyr Asp Arg Arg Met
 85 90 95

Leu Gly Thr Arg Ala Thr Gly Asn Tyr Ala Gly Arg Gly Thr Thr Gly
 100 105 110

Met Val Ala Arg Phe Ile Pro Ser His Leu Asn Asn Lys Ser Cys Arg
 115 120 125

Val Thr Ser Leu Cys Tyr Ser Glu Asp Gly Gln Glu Ile Leu Val Ser
 130 135 140

Tyr Ser Ser Asp Tyr Ile Tyr Leu Phe Asp Pro Lys Asp Asp Thr Ala
 145 150 155 160

Arg Glu Leu Lys Thr Pro Ser Ala Glu Glu Arg Arg Glu Glu Leu Arg

T02T60" 28005660

165

170

175

Gln	Pro	Pro	Val	Lys	Arg	Leu	Arg	Leu	Arg	Gly	Asp	Trp	Ser	Asp	Thr
			180					185					190		
Gly	Pro	Arg	Ala	Arg	Pro	Glu	Ser	Glu	Arg	Glu	Arg	Asp	Gly	Glu	Gln
		195					200					205			
Ser	Pro	Asn	Val	Ser	Leu	Met	Gln	Arg	Met	Ser	Asp	Met	Leu	Ser	Arg
	210					215					220				
Trp	Phe	Glu	Glu	Ala	Ser	Glu	Val	Ala	Gln	Ser	Asn	Arg	Gly	Arg	Gly
225					230				235						240
Arg	Ser	Arg	Pro	Arg	Gly	Gly	Thr	Ser	Gln	Ser	Asp	Ile	Ser	Thr	Leu
				245					250					255	
Pro	Thr	Val	Pro	Ser	Ser	Pro	Asp	Leu	Glu	Val	Ser	Glu	Thr	Ala	Met
			260					265					270		
Glu	Val	Asp	Thr	Pro	Ala	Glu	Gln	Phe	Leu	Gln	Pro	Ser	Thr	Ser	Ser
		275					280					285			
Thr	Met	Ser	Ala	Gln	Ala	His	Ser	Thr	Ser	Ser	Pro	Thr	Glu	Ser	Pro
	290					295					300				
His	Ser	Thr	Pro	Leu	Leu	Ser	Ser	Pro	Asp	Ser	Glu	Gln	Arg	Gln	Ser
305					310					315					320
Val	Glu	Ala	Ser	Gly	His	His	Thr	His	His	Gln	Ser	Asp	Asn	Asn	Asn
				325					330					335	
Glu	Lys	Leu	Ser	Pro	Lys	Pro	Gly	Thr	Gly	Glu	Pro	Val	Leu	Ser	Leu
			340					345					350		
His	Tyr	Ser	Thr	Glu	Gly	Thr	Thr	Thr	Ser	Thr	Ile	Lys	Leu	Asn	Phe
		355					360					365			
Thr	Asp	Glu	Trp	Ser	Ser	Ile	Ala	Ser	Ser	Ser	Arg	Gly	Ile	Gly	Ser
	370					375					380				
His	Cys	Lys	Ser	Glu	Gly	Gln	Glu	Glu	Ser	Phe	Val	Pro	Gln	Ser	Ser
385					390					395					400
Val	Gln	Pro	Pro	Glu	Gly	Asp	Ser	Glu	Thr	Lys	Ala	Pro	Glu	Glu	Ser
			405						410					415	
Ser	Glu	Asp	Val	Thr	Lys	Tyr	Gln	Glu	Gly	Val	Ser	Ala	Glu	Asn	Pro
			420					425					430		
Val	Glu	Asn	His	Ile	Asn	Ile	Thr	Gln	Ser	Asp	Lys	Phe	Thr	Ala	Lys
		435					440					445			
Pro	Leu	Asp	Ser	Asn	Ser	Gly	Glu	Arg	Asn	Asp	Leu	Asn	His	Asp	Arg
	450					455					460				
Ser	Cys	Gly	Val	Pro	Glu	Glu	Ser	Ala	Ser	Ser	Glu	Lys	Ala	Lys	Glu
465					470					475					480
Pro	Glu	Thr	Ser	Asp	Gln	Thr	Ser	Thr	Glu	Ser	Ala	Thr	Asn	Glu	Asn
				485					490					495	

09500309101

Asn Thr Asn Pro Glu Pro Gln Phe Gln Thr Glu Ala Thr Gly Pro Ser
 500 505 510
 Ala His Glu Glu Thr Ser Thr Arg Asp Ser Ala Leu Gln Asp Thr Asp
 515 520 525
 Asp Ser Asp Asp Asp Pro Val Leu Ile Pro Gly Ala Arg Tyr Arg Ala
 530 535 540
 Gly Pro Gly Asp Arg Arg Ser Ala Val Ala Arg Ile Gln Glu Phe Phe
 545 550 555 560
 Arg Arg Arg Lys Glu Arg Lys Glu Met Glu Glu Leu Asp Thr Leu Asn
 565 570 575
 Ile Arg Arg Pro Leu Val Lys Met Val Tyr Lys Gly His Arg Asn Ser
 580 585 590
 Arg Thr Met Ile Lys Glu Ala Asn Phe Trp Gly Ala Asn Phe Val Met
 595 600 605
 Ser Gly Ser Asp Cys Gly His Ile Phe Ile Trp Asp Arg His Thr Ala
 610 615 620
 Glu His Leu Met Leu Leu Glu Ala Asp Asn His Val Val Asn Cys Leu
 625 630 635 640
 Gln Pro His Pro Phe Asp Pro Ile Leu Ala Ser Ser Gly Ile Asp Tyr
 645 650 655
 Asp Ile Lys Ile Trp Ser Pro Leu Glu Glu Ser Arg Ile Phe Asn Arg
 660 665 670
 Lys Leu Ala Asp Glu Val Ile Thr Arg Asn Glu Leu Met Leu Glu Glu
 675 680 685
 Thr Arg Asn Thr Ile Thr Val Pro Ala Ser Phe Met Leu Arg Met Leu
 690 695 700
 Ala Ser Leu Asn His Ile Arg Ala Asp Arg Leu Glu Gly Asp Arg Ser
 705 710 715 720
 Glu Gly Ser Gly Gln Glu Asn Glu Asn Glu Asp Glu Glu
 725 730

<210> 558

<211> 107

<212> PRT

<213> Homo sapiens

<400> 558

Met Ala Gln Gln Asp Pro Gly Leu Pro Phe Leu Phe Trp Phe Ser Val
 1 5 10 15

Ala Ser Leu Ile Thr Leu Phe His Leu Phe Leu Phe Lys Leu Ser Phe
 20 25 30

Gly Gly Leu Gln Phe Thr Glu Asn His Leu Gln Phe Gln Ala Asp Pro

35

40

45

Asp Val Leu His Asn Ser Tyr Ala Leu His Gly Ile Arg Tyr Lys Asn
 50 55 60

Asp His Ile Asn Leu Ala Val Leu Ala Asp Ala Glu Gly Lys Pro Tyr
 65 70 75 80

Leu His Val Ser Val Glu Ser Arg Gly Gln Pro Val Lys Ile Tyr Ala
 85 90 95

Cys Lys Gln Ala Ala Trp Thr Ser Gln Trp Ser
 100 105

<210> 559

<211> 8

<212> PRT

<213> Homo sapiens

<400> 559

Ser Cys Phe Asn Leu Leu Gly Thr
 1 5

<210> 560

<211> 36

<212> PRT

<213> Homo sapiens

<400> 560

Met Asn Ala Ala Val Leu Leu Thr Leu Val Phe Phe Leu Leu Leu Tyr
 1 5 10 15

Leu Phe Tyr Leu Gly Val Leu Gly Ser Asp Pro Ala Tyr Leu Pro Leu
 20 25 30

Leu Lys Lys Ser
 35

<210> 561

<211> 8

<212> PRT

<213> Homo sapiens

<400> 561

Lys Ser Ile Leu Gly Ser His Ser
 1 5

<210> 562

<211> 77

<212> PRT

<213> Homo sapiens

<400> 562

09950088-091001

Leu Leu Ile Thr Ile Leu Leu Gly Leu Tyr Phe Thr Leu Leu Gln Ala
 1 5 10 15
 Ser Glu Tyr Phe Glu Ser Pro Phe Thr Ile Ser Asp Gly Ile Tyr Gly
 20 25 30
 Ser Thr Phe Phe Val Ala Thr Gly Phe His Gly Leu His Val Ile Ile
 35 40 45
 Gly Ser Thr Phe Leu Thr Ile Cys Phe Ile Arg Gln Leu Ile Phe His
 50 55 60
 Phe Thr Ser Lys His His Phe Gly Phe Glu Ala Ala Ala
 65 70 75

<210> 563
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 563
 Met Ile Ser Met Lys Met Ile Leu Val Ile Leu Val Thr Leu Ala Leu
 1 5 10 15
 Pro Val Ala Gln Leu His Leu Leu Leu Leu Val Leu Lys Ile Gln
 20 25 30

<210> 564
 <211> 4
 <212> PRT
 <213> Homo sapiens

<400> 564
 Phe Pro Tyr Ser
 1

<210> 565
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 565
 Met Val Phe Ser Cys His Leu Leu Phe Leu Ile Arg Cys Leu Tyr Ser
 1 5 10 15
 Cys Gly His Leu Ser Ser Thr Leu Gln His Ile Ile
 20 25

<210> 566
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 566

Met Pro Leu Val Tyr Pro Val Cys Leu Leu Ile Cys Phe His Leu
 1 5 10 15

Ser Phe Ile Glu Glu Asp Pro Phe Met Ile Leu Asn Thr Phe His
 20 25 30

<210> 567

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 567

Met Val Cys Thr Tyr Phe Leu Pro Phe Cys Asn Val Phe Leu Cys Leu
 1 5 10 15

Leu Phe Leu Trp Leu Cys Arg Ser Phe Phe Ile Cys Cys Asn Leu Ile
 20 25 30

Phe Xaa Ser Leu Leu Phe Leu Leu Val Leu Leu Glu Ser Tyr Pro Lys
 35 40 45

Asn His Cys Pro Val Gln Ser Gln Glu Thr Phe Pro Tyr Ile Phe Phe
 50 55 60

Ser Ser Phe Ile Ile Leu Gly Leu Thr Cys Lys Ser Leu Ile Gln Phe
 65 70 75 80

Glu Leu Ile Phe Val Tyr Gly Val Arg
 85

<210> 568

<211> 94

<212> PRT

<213> Homo sapiens

<400> 568

Met Asp Ile Lys Asn Ile Thr Cys Ser Met Lys Ile Thr Trp Tyr Ile
 1 5 10 15

Leu Val Leu Leu Val Phe Ile Phe Leu Ile Ile Leu Thr Ile Arg Lys
 20 25 30

Ile Leu Glu Gly Gln Arg Arg Val Gln Lys Trp Gln Ser His Arg Asp
 35 40 45

Lys Pro Thr Ser Val Leu Leu Arg Gly Ser Asp Ser Glu Lys Leu Arg
 50 55 60

Ala Leu Asn Val Gln Val Leu Ser Ala Glu Thr Thr Gln Arg Leu Pro
 65 70 75 80

09950082-091201

Leu Asp Gln Val Gln Glu Val Leu Pro Pro Ile Pro Glu Leu
 85 90

<210> 569
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 569
 Met Ala Arg Asn Val Trp Phe Phe Ile Val Ser Phe Cys Tyr Lys Phe
 1 5 10 15

Leu Ser Tyr Phe Arg Ala Ser Ser Thr Leu Lys Val
 20 25

<210> 570
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 570
 Met Pro Leu Pro Ser Ser Gly Gln Phe
 1 5

<210> 571
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 571
 Met Leu Ala Trp Gln His Phe Gln Ile Ala Phe Cys Leu Leu Gly Ser
 1 5 10 15

Trp Gly Phe Gly Gly Arg Gly Ser Ile Ser Thr Leu His Glu Ile Ala
 20 25 30

Tyr Phe Ile Met Met Glu Leu Leu Phe Leu Leu Ser Cys Asp Phe Phe
 35 40 45

Phe

<210> 572
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 572
 Leu Ala Ser Gly Pro Gly Ala Thr Leu Arg Cys Leu Val Trp Leu Trp
 1 5 10 15

Ser Leu Ser Leu Arg Ala Leu Leu Pro Leu Ser His Ala Val Trp Trp
 20 25 30

<210> 576
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 576
 Met Ala Leu Arg Leu Ala Arg Met Trp Leu Ser Ser Leu Ala Ser Val
 1 5 10 15

<210> 577
 <211> 1
 <212> PRT
 <213> Homo sapiens

<400> 577
 Ile
 1

<210> 578
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 578
 Ala His Val Val Val Val Val Leu Trp Trp Glu Phe Ala Ala Val Gln
 1 5 10 15

Thr Leu Trp Pro Gly Lys Ser Lys Phe Leu Gln Asp Gly Phe Thr Ala
 20 25 30

Ser Leu Asp
 35

<210> 579
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 579
 Met Leu Phe Ile Ser Asn Leu Pro Leu Pro Ser Gln Phe Ile Tyr Leu
 1 5 10 15

Ala Ser Asp Ser Phe Phe Ser Ser Pro Thr Pro Phe Ser Ser Thr Ser
 20 25 30

Gln Pro Thr Asn Thr Tyr Ser Leu

35

40

<210> 580
 <211> 254
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (222)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 580

Met Gln Gly Val Ile Leu Leu Leu Phe Ala Lys Tyr Tyr His Leu Pro
 1 5 10 15

Phe Leu Arg Asp Val Gln Thr Asp Cys Thr Arg Thr Gly Leu Gly Gly
 20 25 30

Tyr Trp Gly Asn Lys Gly Gly Val Ser Val Arg Leu Ala Ala Phe Gly
 35 40 45

His Met Leu Cys Phe Leu Asn Cys His Leu Pro Ala His Met Asp Lys
 50 55 60

Ala Glu Gln Arg Lys Asp Asn Phe Gln Thr Ile Leu Ser Leu Gln Gln
 65 70 75 80

Phe Gln Gly Pro Gly Ala Gln Gly Ile Leu Asp His Asp Leu Val Phe
 85 90 95

Trp Phe Gly Asp Leu Asn Phe Arg Ile Glu Ser Tyr Asp Leu His Phe
 100 105 110

Val Lys Phe Ala Ile Asp Ser Asp Gln Leu His Gln Leu Trp Glu Lys
 115 120 125

Asp Gln Leu Asn Met Ala Lys Asn Thr Trp Pro Ile Leu Lys Gly Phe
 130 135 140

Gln Glu Gly Pro Leu Asn Phe Ala Pro Thr Phe Lys Phe Asp Val Gly
 145 150 155 160

Thr Asn Lys Tyr Asp Thr Ser Ala Lys Lys Arg Lys Pro Ala Trp Thr
 165 170 175

Asp Arg Ile Leu Trp Lys Val Lys Ala Pro Gly Gly Gly Pro Ser Pro
 180 185 190

Ser Gly Arg Lys Ser His Arg Leu Gln Val Thr Gln His Ser Tyr Arg
 195 200 205

Ser His Met Glu Tyr Thr Val Ser Asp His Lys Pro Val Xaa Ala Gln
 210 215 220

Phe Leu Leu Gln Phe Ala Phe Gln Gly Arg His Ala Thr Gly Ala Ala
 225 230 235 240

Gly Gly Gly Gln Met Ser Gly Cys Gly Pro Ser Arg Arg Trp

TOP SECRET-2805660

245

250

<210> 581
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 581
 Val Gln Thr Tyr Val Val Leu Leu His Phe Ala Leu Ser Cys Phe Ala
 1 5 10 15

Asp Ile Val Phe Phe Thr Asn
 20

<210> 582
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 582
 Tyr Leu Leu Lys Ile Ser Leu Phe Leu Gly Ala Val Tyr Val Thr Leu
 1 5 10 15

His Ser Ser Gly Ser Cys His Val Phe Met Ser Glu Tyr Phe Trp Phe
 20 25 30

<210> 583
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 583
 Lys Ala Ile Trp Phe Leu Ile Leu Cys Thr Thr His Ser Ile Leu Ile
 1 5 10 15

Ile Thr Phe Ile Tyr Lys Lys Asn Lys Glu Asn Asn Ser Lys Leu Cys
 20 25 30

<210> 584
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 584
 Met Thr Asn Tyr Phe Trp Ala Ser Ala Ser Ser Cys Thr Val Phe Pro
 1 5 10 15

0950082-091201
 T02T60-28005660

Leu Ala Phe Leu Cys Ser Ser Cys Val Gly Pro Pro Ser Phe Ser Cys
 20 25 30

Ala His His Ile Leu His Gln Glu Ser Trp His Leu Phe Phe Ser Ser
 35 40 45

Ala Trp Asn Ala Phe Leu Cys
 50 55

<210> 585

<211> 55

<212> PRT

<213> Homo sapiens

<400> 585

Met Trp Ala Leu Lys Ser Leu Phe Leu Leu Thr Pro Ser Pro Val Ile
 1 5 10 15

Arg Phe Tyr Phe Ala Ala Leu Trp Ile Arg Ala Ala Gly Arg Leu Leu
 20 25 30

Gly Gly Gly Gly Ser Pro Thr Pro Pro Thr Ser Leu Ala Pro Gly Phe
 35 40 45

Ser Glu Ala Gly Gly Leu Cys
 50 55

<210> 586

<211> 23

<212> PRT

<213> Homo sapiens

<400> 586

Val Gly His Phe Trp Val Val Ile Trp Leu Val Arg Ser Met Ser Asp
 1 5 10 15

Arg Met Asn Lys Asn Ala Leu
 20

<210> 587

<211> 43

<212> PRT

<213> Homo sapiens

<400> 587

Met Gly Ile Phe Asp Tyr Lys Leu Phe Ser His Tyr Phe Lys Ala Cys
 1 5 10 15

Phe Ile Phe Phe Leu Ile Leu Leu Thr His Leu Cys Leu Ser Leu Phe
 20 25 30

Tyr Tyr Lys Leu Phe Ile Val Gln Ser Leu Pro
 35 40

09550082-091201

<210> 588
 <211> 265
 <212> PRT
 <213> Homo sapiens

<400> 588

Met Gly Gly Gln Val Ala Gly Val Tyr Ala Ala Tyr Tyr Pro Ser Asp
 1 5 10 15

Val Ser Ser Leu Cys Leu Val Cys Pro Ala Gly Leu Gln Tyr Ser Thr
 20 25 30

Asp Asn Gln Phe Val Gln Arg Leu Lys Glu Leu Gln Gly Ser Ala Ala
 35 40 45

Val Glu Lys Ile Pro Leu Ile Pro Ser Thr Pro Glu Glu Met Ser Glu
 50 55 60

Met Leu Gln Leu Cys Ser Tyr Val Arg Phe Lys Val Pro Gln Gln Ile
 65 70 75 80

Leu Gln Gly Leu Val Asp Val Arg Ile Pro His Asn Asn Phe Tyr Arg
 85 90 95

Lys Leu Phe Leu Glu Ile Val Ser Glu Lys Ser Arg Tyr Ser Leu His
 100 105 110

Gln Asn Met Asp Lys Ile Lys Val Pro Thr Gln Ile Ile Trp Gly Lys
 115 120 125

Gln Asp Ala Gly Ala Gly Cys Val Trp Gly Arg His Val Gly Gln Val
 130 135 140

Asn Cys Gln Leu Pro Gly Gly Ala Ser Gly Lys Leu Trp Ala Leu Ser
 145 150 155 160

Ser Asp Gly Lys Thr Gln Glu Asp Ser Gln Ala His Asn Arg Leu Phe
 165 170 175

Ser Phe Cys Ala Gln His Arg Gln Gln Gln Glu Ala Gly Leu Arg Pro
 180 185 190

Arg Leu Gln Pro Ala Phe Cys Thr Gln His Leu Leu Pro Ser Pro Lys
 195 200 205

Ser Asp Ala Ala Thr Thr Leu Arg Asp Pro Ala Pro Asn Ala Val Gly
 210 215 220

Ala Pro Val Thr Leu Arg Lys Pro Val Pro Tyr Pro Trp Tyr Pro Arg
 225 230 235 240

Phe Pro Arg Ala Leu Gly Thr Thr Arg Lys Pro Pro Arg Tyr Phe Ser
 245 250 255

Gln Asn Arg Asn Ser Tyr Gly Thr Lys
 260 265

<210> 589

Ile Met Val Ser Asn Phe Pro Gly Ile Val Thr Ser Phe Ile Arg Phe
 115 120 125

Trp Leu Phe Trp Lys Tyr Pro Gln Glu Gln Asp Arg Asn Tyr Trp Leu
 130 135 140

Leu Gln Thr
 145

<210> 593
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 593
 Asn Ser Leu Val Lys Phe Thr Phe Pro Pro Pro Leu Ser Gly Ala Pro
 1 5 10 15

Ser Cys Val Ile Cys Gly Phe Trp Thr Pro Asn Val Ser Leu Ala Val
 20 25 30

Gly Leu Pro Glu Val Trp Tyr Val Leu Glu Gln Trp Glu Ala Val Ile
 35 40 45

Cys Cys Val Ser Ser His Pro Ala Leu Glu Ser Asn Gly His Ser Gln
 50 55 60

Pro Glu Leu Pro Leu Ser Thr Pro Cys Leu Gly Phe Cys Ser Leu Gly
 65 70 75 80

<210> 594
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 594
 Met Pro Tyr Met Tyr Ser Ser Pro Leu Pro Ile Phe Tyr Thr
 1 5 10

<210> 595
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 595
 Met Leu Met Leu Pro Leu Leu Leu Leu Ile Leu Ser Val Glu Leu Phe
 1 5 10 15

Gln Leu Phe Leu Ser Leu Lys Leu Leu Pro Leu Leu Leu Leu Leu
 20 25 30

<210> 596
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 596
 Met Arg Phe Ala Ser Ser Asp Leu Leu Cys Tyr Trp Lys Leu Ala Leu
 1 5 10 15

Phe Thr Ala Ile Arg Ser Ser Leu Ala Ser Ile Pro Leu Met Thr Ser
 20 25 30

Phe Thr Ser Leu Thr Pro Leu Tyr Tyr Cys Leu Ala Gln Phe Ser
 35 40 45

<210> 597
 <211> 45
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (31)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 597
 Met His Val Leu Leu Phe Ser Phe Leu Ile Pro Phe Leu Leu Leu Ser
 1 5 10 15

Pro Val Gly Val Thr Cys Asn Ser His Met Leu Glu Arg Gln Xaa Ser
 20 25 30

Trp Leu Lys Lys Arg Ser Thr Gln Ala Ser Gln His Val
 35 40 45

<210> 598
 <211> 1
 <212> PRT
 <213> Homo sapiens

<400> 598
 Trp
 1

<210> 599
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 599
 Met Leu Leu Val Ala Leu Pro Cys Phe Leu Gln Asn Cys Pro Trp Ser
 1 5 10 15

0050082-09160

Ser Arg Val Leu Glu Thr Leu Cys Leu Leu Asn Gly Pro Leu Phe Leu
 20 25 30

Cys Cys Ala Leu Asp Gly
 35

<210> 600
 <211> 145
 <212> PRT
 <213> Homo sapiens

<400> 600
 Lys Ser Gln Val Phe Ser Tyr Pro His Arg Tyr Leu Val Leu Asp Leu
 1 5 10 15
 Ala Leu Leu Phe Leu Met Gly Ile Leu Glu Ala Val Arg Leu Tyr Leu
 20 25 30
 Gly Thr Arg Gly Asn Leu Thr Glu Ala Glu Arg Pro Leu Ala Ala Ser
 35 40 45
 Leu Ala Leu Thr Ala Gly Thr Ala Leu Leu Ser Ala His Phe Leu Leu
 50 55 60
 Trp Gln Ala Leu Val Leu Trp Ala Asp Trp Ala Leu Ser Ala Thr Leu
 65 70 75 80
 Leu Ala Leu His Gly Leu Glu Ala Val Leu Gln Val Val Ala Ile Ala
 85 90 95
 Ala Phe Thr Arg Gly Phe Gly Gly Glu Val Arg Ala Lys Ala Gly Asp
 100 105 110
 Glu Thr Ala Gly Glu Arg Ala Ala Glu Gly His Ile Arg Ser Leu Arg
 115 120 125
 Pro Leu Gln Phe Tyr Gln Leu Leu Pro Phe Cys Thr Glu Leu Asn Lys
 130 135 140
 Phe
 145

<210> 601
 <211> 211
 <212> PRT
 <213> Homo sapiens

<400> 601
 Met Thr Thr Leu Thr Arg Gln Asp Leu Asn Phe Gly Gln Val Val Ala
 1 5 10 15
 Asp Val Leu Cys Glu Phe Leu Glu Val Ala Val His Leu Ile Leu Tyr
 20 25 30
 Val Arg Glu Val Tyr Pro Val Gly Ile Phe Gln Lys Arg Lys Lys Tyr
 35 40 45

Asn Val Pro Val Gln Met Ser Cys His Pro Glu Leu Asn Gln Tyr Ile
 50 55 60
 Gln Asp Thr Leu His Cys Val Lys Pro Leu Leu Glu Lys Asn Asp Val
 65 70 75 80
 Glu Lys Val Val Val Val Ile Leu Asp Lys Glu His Arg Pro Val Glu
 85 90 95
 Lys Phe Val Phe Glu Ile Thr Gln Pro Pro Leu Leu Ser Ile Ser Ser
 100 105 110
 Asp Ser Leu Leu Ser His Val Glu Gln Leu Leu Arg Ala Phe Ile Leu
 115 120 125
 Lys Ile Ser Val Cys Asp Ala Val Leu Asp His Asn Pro Pro Gly Cys
 130 135 140
 Thr Phe Thr Val Leu Val His Thr Arg Glu Ala Ala Thr Arg Asn Met
 145 150 155 160
 Glu Lys Ile Gln Val Ile Lys Asp Phe Pro Trp Ile Leu Ala Asp Glu
 165 170 175
 Gln Asp Val His Met His Asp Pro Arg Leu Ile Pro Leu Lys Thr Met
 180 185 190
 Thr Ser Asp Ile Leu Lys Met Gln Leu Tyr Val Glu Glu Arg Ala His
 195 200 205
 Lys Gly Ser
 210

<210> 602
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 602
 Met Leu Gln Thr Cys Ser Val Val Leu His Phe Ile Leu Cys Leu Cys
 1 5 10 15
 Val Cys Val Phe Arg Leu Ile Gln Val Val Cys Tyr Ile Ser Cys Ile
 20 25 30
 Ile Tyr Lys Val Thr Gln Asn Ile Lys Ser Ser Lys Leu Val
 35 40 45

<210> 603
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 603
 Met Pro Asn Thr Phe Tyr Leu Ser Leu His Gly Ser Leu Val Asn Ser
 1 5 10 15

Phe Ala Val Thr Ser Leu Ala Leu Leu Asn Pro Ser Ser Gly Val Ser
 20 25 30
 Tyr Ser Phe Leu Lys Asn Lys Trp Val Leu Thr Leu Val Ser Lys Ser
 35 40 45
 Leu Cys Asn Leu Val Pro Val Ser Leu Ser Leu Ser Leu Ser Leu Ser
 50 55 60
 Ala Ser Phe Val Leu Leu Gly Leu Ala Cys Arg Thr Leu Ala Phe Val
 65 70 75 80
 Lys Cys Pro Ser Ser Val Leu Phe Pro Pro Pro Gly Met Ser Val Ser
 85 90 95
 Leu Phe Leu Pro Thr His Ser Ala Pro Pro Ser Cys Lys Pro Leu Ser
 100 105 110
 Val Pro Ser Leu His Val Leu Trp Trp Gln
 115 120

<210> 604
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 604
 Met Leu Cys Val Leu Val Leu Phe Ile Leu Tyr Leu Pro Gly Phe Ser
 1 5 10 15
 Lys Ser Asn Gln Asp Val Pro Trp Gly Asp Ile Leu Cys
 20 25

<210> 605
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 605
 Met Leu Tyr Trp Gly Asn Val Ala Leu Val Leu Pro Thr Pro Tyr Leu
 1 5 10 15
 His Leu Ser Leu Thr Leu Leu Leu Ser Pro Glu Trp Leu Gly Glu Met
 20 25 30
 Gly Arg Gly Leu Pro Trp Pro Gly His Leu Val Ala Ala Trp Leu Asp
 35 40 45
 His Ile Ala Asn Glu Leu Gly Arg Gly Ala Ile Phe
 50 55 60

<210> 606
 <211> 49
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 606
 Met Lys Gly His Ser Ser Lys Leu Phe Cys Leu Val Val Trp Gly Phe
 1 5 10 15
 Leu Cys Phe Leu Phe Leu Gly Cys Phe Phe Phe Asn Cys Leu Val Gln
 20 25 30
 Lys Lys Lys Glu Lys Lys Asn Xaa Gly Gly Ala Pro Glu Pro Asn Xaa
 35 40 45

Pro

<210> 607
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 607
 Trp Ala Ser Leu Thr
 1 5

<210> 608
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 608
 Met Thr Cys Leu Ser Cys Leu Ile Ser Phe Leu Ala Ser Leu Ser Ala
 1 5 10 15

Asn Trp Ala Ser Thr Arg
 20

<210> 609
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 609
 Met Lys Pro Ser Trp Gln Leu Pro Ser Cys Ala
 1 5 10

<210> 610
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 610
 Met Lys Tyr Cys Phe Arg Pro Trp Val Leu Cys Asp Thr Thr Leu Gly
 1 5 10 15
 Ile Gly Leu Phe Gly Phe Ala Leu Cys Phe
 20 25

<210> 611
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 611
 Leu Leu Val Leu Leu Gln Ile Met Lys Gly Asn Leu
 1 5 10

<210> 612
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 612
 Met Gly Gly Asp Gln Arg Ser Met Gly Leu Ala Cys Glu Ser Pro Leu
 1 5 10 15
 Ala Ala Trp Ser Leu Gly Ile Thr Pro Ala Leu Val Leu Gln Met Leu
 20 25 30
 Leu Gly Phe Ile Gly Ala Gly Pro Ser Arg Ala Gly Pro Leu Thr Leu
 35 40 45
 Pro Ala Trp Leu His Ser Pro
 50 55

<210> 613
 <211> 120
 <212> PRT
 <213> Homo sapiens

<400> 613
 Met Met Cys Val Val Leu Thr Thr Leu Pro Cys Leu Thr Phe Ser Ile
 1 5 10 15
 Ala Val Thr Glu Val Gln Lys Ser Ile Asn Gly Ser Ala Asp Val Leu
 20 25 30
 Pro Asp Met Leu Pro Asp Leu Pro Val Ser Leu Val Leu Leu Ser Leu
 35 40 45

Ile Met Val Asp Ile Ile Glu Lys Leu Arg Ile Tyr Pro Leu Arg Gly
50 55 60

Ser Gln Lys Ser Lys Cys Ser Phe Lys Cys Glu Tyr Phe Leu Lys Phe
65 70 75 80

Asp Ile Phe Phe Thr Phe Leu Pro Leu Cys Tyr Leu Thr Thr Cys Leu
85 90 95

Met Ile Pro Phe Leu Arg Ala Asn Ile Thr Asp Arg Arg Leu Gln Met
100 105 110

Lys Ile Ser Lys His Asn Tyr Phe
115 120

<210> 614
<211> 20
<212> PRT
<213> Homo sapiens

<400> 614
Met Gly Thr Ile Lys Pro Trp Lys Ser Ser Ala Val Val Gly Gly Pro
1 5 10 15

Gly His Gln Gly
20

<210> 615
<211> 425
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (264)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (274)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (278)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (296)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 615
Met Glu Leu Leu Pro Leu Trp Leu Cys Leu Gly Phe His Phe Leu Thr
1 5 10 15

Val Gly Trp Arg Asn Arg Ser Gly Thr Ala Thr Ala Ala Ser Gln Gly

20

25

30

Val	Cys	Lys	Leu	Val	Gly	Gly	Ala	Ala	Asp	Cys	Arg	Gly	Gln	Ser	Leu			
		35					40					45						
Ala	Ser	Val	Pro	Ser	Ser	Leu	Pro	Pro	His	Ala	Arg	Met	Leu	Thr	Leu			
	50					55					60							
Asp	Ala	Asn	Pro	Leu	Lys	Thr	Leu	Trp	Asn	His	Ser	Leu	Gln	Pro	Tyr			
65					70				75						80			
Pro	Leu	Leu	Glu	Ser	Leu	Ser	Leu	His	Ser	Cys	His	Leu	Glu	Arg	Ile			
				85					90					95				
Ser	Arg	Gly	Ala	Phe	Gln	Glu	Gln	Gly	His	Leu	Arg	Ser	Leu	Val	Leu			
			100					105					110					
Gly	Asp	Asn	Cys	Leu	Ser	Glu	Asn	Tyr	Glu	Glu	Thr	Ala	Ala	Ala	Leu			
		115					120					125						
His	Ala	Leu	Pro	Gly	Leu	Arg	Arg	Leu	Asp	Leu	Ser	Gly	Asn	Ala	Leu			
	130					135					140							
Thr	Glu	Asp	Met	Ala	Ala	Leu	Met	Leu	Gln	Asn	Leu	Ser	Ser	Leu	Arg			
145					150					155					160			
Ser	Val	Ser	Leu	Ala	Gly	Asn	Thr	Ile	Met	Arg	Leu	Asp	Asp	Ser	Val			
				165					170					175				
Phe	Glu	Gly	Leu	Glu	Arg	Leu	Arg	Glu	Leu	Asp	Leu	Gln	Arg	Asn	Tyr			
			180					185					190					
Ile	Phe	Glu	Ile	Glu	Gly	Gly	Ala	Phe	Asp	Gly	Leu	Ala	Glu	Leu	Arg			
		195					200					205						
His	Leu	Asn	Leu	Ala	Phe	Asn	Asn	Leu	Pro	Cys	Ile	Val	Asp	Phe	Gly			
	210					215					220							
Leu	Thr	Arg	Leu	Arg	Val	Leu	Asn	Val	Ser	Tyr	Asn	Val	Leu	Glu	Trp			
225					230					235					240			
Phe	Leu	Ala	Thr	Gly	Gly	Glu	Ala	Ala	Phe	Glu	Leu	Glu	Thr	Leu	Asp			
				245					250					255				
Leu	Ser	His	Asn	Gln	Ala	Ala	Xaa	Leu	Pro	Ala	Ala	Ala	Pro	Val	Gln			
			260					265					270					
Gln	Xaa	Ala	Asp	Pro	Xaa	Ala	Ala	Arg	Gln	Gln	His	Gly	Leu	Leu	Pro			
		275					280					285						
Gly	Pro	Val	Gln	His	Leu	Val	Xaa	Glu	Gly	Asp	Gly	Gly	Pro	Val	Pro			
	290					295					300							
Pro	Arg	Gly	Arg	Gln	Arg	Asp	Gln	His	His	His	Arg	Gln	Pro	Leu	Gly			
305				310					315						320			
Arg	Ile	Leu	Leu	Gln	Arg	Pro	Arg	Arg	Ser	Pro	Leu	Pro	Gly	His	Glu			
				325					330					335				
Pro	Glu	Pro	Val	Pro	Val	Pro	Ala	Arg	Arg	Leu	Pro	Glu	Glu	Asn	Ala			
			340					345					350					

FOI b7D b7C b7E

<211> 62
 <212> PRT
 <213> Homo sapiens

<400> 621
 Met Glu Gln Glu Pro Val Arg Arg Tyr Pro Leu Val Pro Leu Val Pro
 1 5 10 15
 Leu Val Val Val Ala Val Trp Gly Phe Phe Pro Gly Gly Ser Glu Ser
 20 25 30
 Ser Ser Ser Glu Leu Asp Ser Ile Ser Leu Arg Ser Ser Leu Asp Thr
 35 40 45
 Leu Pro Leu Glu Thr Ala Leu Gln Ala Ile Phe Thr Ile Lys
 50 55 60

<210> 622
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 622
 Leu Phe Val Phe Phe Cys Phe Val Leu Val Phe Phe Phe Phe Leu Ala
 1 5 10 15

<210> 623
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 623
 Met Leu Leu Leu Ser Ile Val Leu Leu Leu Ile Leu
 1 5 10

<210> 624
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 624
 Met Ala His Ser Arg Tyr Ser Thr Ile Ile Ile Leu Tyr Leu Ile Ala
 1 5 10 15
 Asn Trp Leu Ala Phe Ala Gln His Ser Ala Tyr Ile Gly Pro Leu Arg
 20 25 30
 Gly Leu Ser Pro Ala Ser
 35

<210> 625
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 625
 Met Leu Met Ala Ser Ala Leu Ser Arg Cys Ala Gly Ala Ala Val Leu
 1 5 10 15
 Val Leu Leu Leu Trp Leu Ala Val Asp Trp Ala Leu Met
 20 25

<210> 626
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 626
 Met Lys Leu Phe Phe Cys Leu Cys Ala Gly Leu Ile Leu Glu Phe Gln
 1 5 10 15
 Lys Ala Leu Trp Glu Arg Lys Arg Leu Leu Asn Lys Val Trp Asn Arg
 20 25 30
 Ala Pro His Ser Asp Asn Met Gln Ser
 35 40

<210> 627
 <211> 48
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 627
 Met Ala Thr Gln Gln Cys Ile Tyr Xaa Xaa Leu Cys Trp Leu Phe Ile
 1 5 10 15
 Tyr Ser Leu Tyr Arg Arg Lys Leu Asn Met Asp His Thr Phe Ser Pro
 20 25 30
 Glu Phe Ser Phe Ser Leu Gln Val Pro Gln Asn Tyr Cys Val Leu Asn
 35 40 45

<210> 628
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 628
 Met Ser Ser Leu Leu Leu Ile Ile Ile Leu Ala Leu Ser Leu Ala Tyr
 1 5 10 15

Glu

<210> 629
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 629
 Met Trp Met Ala Lys Pro Thr Cys Tyr Leu Ala Leu Thr Gly Trp Ser
 1 5 10 15

Cys Trp Arg Thr Cys Trp Glu Arg Ser Gly Trp Ala Leu Tyr Leu Gln
 20 25 30

Pro

<210> 630
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 630
 Met Ala Ala Met Val Phe Leu Leu Leu Ser Ile Thr Thr Ile Trp Gly
 1 5 10 15

Ala Phe Lys Lys
 20

<210> 631
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 631
 Ala Pro Leu Cys His Cys Pro Tyr Phe Gly Phe Cys Lys His Pro Leu
 1 5 10 15

Arg Leu Val Ser Ser Leu Gly Lys Gln Ala Ser Thr Ser
 20 25

<210> 632
 <211> 60

<212> PRT
 <213> Homo sapiens

<400> 632
 Met Gly Phe His Leu Leu Leu Gly Leu Val Asn Leu Leu Gly Leu Val
 1 5 10 15
 Asn Cys Phe Leu Leu Gly Lys Pro Asn Tyr Leu Ser Leu Ile Val Ser
 20 25 30
 Ile Val Ala Pro Leu Thr Phe Leu Phe Ser Phe Ile Ser Asn Ile Lys
 35 40 45
 Lys Lys Lys Lys Lys Gly Gly Arg Ser Arg Gly Ser
 50 55 60

<210> 633
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 633
 Met Phe Glu Cys Tyr Cys Leu
 1 5

<210> 634
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 634
 Met Phe Glu Cys Tyr Cys Leu
 1 5

<210> 635
 <211> 52
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 635
 Met Ser Leu Thr Thr Leu Trp Thr Leu Asp Lys Leu Leu Leu Cys Val
 1 5 10 15
 Cys Xaa Leu Ile Cys Lys Met Lys Ile Ile Ser Val Ser Tyr Arg Tyr
 20 25 30
 Ser Leu Asn Arg Asp Asn Tyr Thr Tyr Phe Lys Val Val Lys Tyr Thr
 35 40 45
 Ile Thr Thr Arg

50

<210> 636
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 636
 Cys Thr His Pro Ala Ser Gly Pro Leu Ser Ser Thr Ser
 1 5 10

<210> 637
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 637
 Met Val Met Phe Leu Ser Leu Ser Leu Trp Ile Asn Pro Val Ile Gly
 1 5 10 15
 Lys Asp Met Thr Ile Trp Arg Trp Asn Thr Tyr Arg Lys Asp Gln Ile
 20 25 30
 Ser Tyr Leu Leu Phe Phe His
 35

<210> 638
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 638
 Met Leu Leu Cys Pro Asn Leu Arg Asn Pro Leu Ile Trp Gly Leu Ile
 1 5 10 15
 Leu Leu Thr His Ala Ile Ser Val Ser Val Ala Ser Phe Tyr Tyr Ile
 20 25 30
 Ile Leu Val Lys Ser Lys Leu Tyr His Val
 35 40

<210> 639
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 639
 Met Pro Phe Pro Trp Ser Phe Arg Leu Leu Met Leu Leu Ser Thr Ala
 1 5 10 15
 Gln Ser Pro Gln Pro Gln Lys Arg Phe Pro Leu His Ser Thr Pro Leu
 20 25 30

Gln Ser Asn Phe Pro Leu Ser Lys Cys
 35 40

<210> 640
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 640
 Glu Ala Phe Cys Phe Leu Arg Ser Tyr Phe Cys Tyr Ser Cys Asn Ala
 1 5 10 15

Pro Pro Tyr Met Pro His Leu Cys Glu Ser Thr Gly Ile Arg Phe Gly
 20 25 30

His His Thr Cys Leu Lys Leu Gly Ser Val Cys Ser Val Phe Cys Val
 35 40 45

Glu Trp Arg Lys Lys Arg Leu Pro Cys Cys Leu Pro Cys Ser
 50 55 60

<210> 641
 <211> 25
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 641
 Met Ser Pro Ser Leu Leu Leu Thr Cys Ile Ile Gly Arg Leu Ile Ile
 1 5 10 15

Pro Pro Ser Leu Lys Ser Pro Xaa Ser
 20 25

<210> 642
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 642
 Met Ala Leu Leu Trp Gln Ile Asn Trp Thr Ile Ala Glu Ala Phe Leu
 1 5 10 15

Arg Gly Asp Ile Thr Asp Ser Thr Ala Leu Trp Ser Trp Ala Ala Thr
 20 25 30

Ser Arg Thr Ser Leu Trp Ser Thr Val Thr Ser Pro Ala Leu
 35 40 45

FOI b7D - 23005560

<210> 643
 <211> 226
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (31)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (32)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (129)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (130)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (150)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (214)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 643
 Met Arg Gly Leu Leu Cys Trp Pro Val Xaa Leu Leu Leu Leu Gln Pro
 1 5 10 15
 Trp Glu Thr Gln Leu Gln Leu Thr Gly Pro Arg Cys His Thr Xaa Xaa
 20 25 30
 Leu Asp Leu Val Xaa Val Ile Asp Ser Ser Arg Ser Val Arg Pro Phe
 35 40 45
 Glu Phe Glu Thr Met Arg Gln Phe Leu Met Gly Leu Leu Arg Gly Leu
 50 55 60
 Asn Val Gly Pro Asn Ala Thr Arg Val Gly Val Ile Gln Tyr Ser Ser
 65 70 75 80

Tyr Gln Phe Ser Arg Leu Gly Glu Val Arg Ser Gly Glu Gln Leu
 35 40 45

<210> 646
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 646
 Met Ile Phe Pro Lys Ile Cys Pro Ile Ser Pro Asn Leu Val Ser Val
 1 5 10 15

Leu Ser Leu Val Phe Phe Trp Thr Leu Leu Gly Ser Arg Arg Val Cys
 20 25 30

Tyr Gln Phe Ser Arg Leu Gly Glu Val Arg Ser Gly Glu Gln Leu
 35 40 45

<210> 647
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 647
 Met Phe Thr Ile Arg Ser Arg Met Cys Leu His Phe Leu Val Leu Val
 1 5 10 15

Ile Cys Ile Leu Arg Glu Cys Glu Ser Val Cys Val Cys Val Cys Val
 20 25 30

Cys Val Cys Leu Trp His Leu Gly Arg Val Val
 35 40

<210> 648
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 648
 Met Phe Thr Ile Arg Ser Arg Met Cys Leu His Phe Leu Val Leu Val
 1 5 10 15

Ile Cys Ile Leu Arg Glu Cys Glu Ser Val Cys Val Cys Val Cys Val
 20 25 30

Cys Val Cys Leu Trp His Leu Gly Arg Val Val
 35 40

<210> 649
 <211> 471
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (191)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (373)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (446)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 649
 Ser Thr Pro Ser Gly Tyr Leu Glu Leu Pro Asp Leu Gly Gln Pro Tyr
 1 5 10 15
 Ser Ser Ala Val Tyr Ser Leu Glu Glu Gln Tyr Leu Gly Leu Ala Leu
 20 25 30
 Asp Val Asp Arg Xaa Lys Lys Asp Xaa Glu Xaa Glu Glu Asp Gln Xaa
 35 40 45
 Pro Pro Cys Pro Arg Leu Ser Arg Glu Leu Leu Glu Val Val Glu Pro
 50 55 60
 Glu Val Leu Gln Asp Ser Leu Asp Arg Cys Tyr Ser Thr Pro Ser Ser
 65 70 75 80
 Cys Leu Glu Gln Pro Asp Ser Cys Gln Pro Tyr Gly Ser Ser Phe Tyr
 85 90 95
 Ala Leu Glu Glu Lys His Val Gly Phe Ser Leu Asp Val Gly Glu Ile
 100 105 110
 Glu Lys Lys Gly Lys Gly Lys Lys Arg Arg Gly Arg Arg Ser Lys Lys
 115 120 125
 Glu Arg Arg Arg Gly Arg Lys Glu Gly Glu Glu Asp Gln Asn Pro Pro


```
<210> 650
<211> 43
<212> PRT
<213> Homo sapiens
```

```

<210> 651
<211> 43
<212> PRT
<213> Homo sapiens

<400> 651
Met Phe Thr Ile Arg Ser Arg Met Cys Leu His Phe Leu Val Leu Val
 1             5             10             15
Ile Cys Ile Leu Arg Glu Cys Glu Ser Val Cys Val Cys Val Cys Val
 20             25             30
Cys Val Cys Leu Trp His Leu Gly Arg Val Val
 35             40

```

```
<210> 652
<211> 24
<212> PRT
<213> Homo sapiens
```

```
<400> 652
Met Leu Phe Phe Pro Leu Val Leu Leu Pro Cys Val Phe Leu Ser Tyr
  1                      5                      10                      15
Ser Lys Arg Arg Arg Ala Gln Gly
                20
```

```
<210> 653
<211> 187
<212> PRT
<213> Homo sapiens
```

367

0950082-091201
 102150-28005550

1 5 10 15
 Ser Ser Gly Cys Gln Glu Arg Gly Arg Thr Phe Val Trp Ala Leu Pro
 20 25 30
 Arg Ala Gly Asn Phe Thr Trp Tyr Leu Lys Val Ser Phe Gly Ile Arg
 35 40 45
 Pro Glu Thr Leu Gly Phe Ser Arg Leu Thr Thr Pro Phe Tyr Ser Lys
 50 55 60
 His Leu Glu Asp Cys Phe Arg Val Ser Gln Gly Pro Ser Val Pro Ser
 65 70 75 80
 Ala Val Glu Cys Arg Thr Leu Cys Asp Ile Leu Tyr Pro Phe Phe Pro
 85 90 95
 Gly Leu Val Ala Met Glu Gly Leu Val Cys Cys Asp Ser Thr Leu Asp
 100 105 110
 Ala Val Ser Leu Met Leu Ala Arg Glu Ala Glu Asp Val Arg Gly Arg
 115 120 125
 Gly Arg Leu Leu Gly Leu Ser Ser Phe Leu Cys Ile Ile Leu Gly Leu
 130 135 140
 Ala Trp Thr Ala Pro Ala Ser Glu Ser Cys Gly Pro His Pro Leu Ala
 145 150 155 160
 Ala Glu Pro Ser Thr Val Ile Leu Gly Ala Ile Phe Pro Cys Arg Thr
 165 170 175
 Gly Ser Leu Ser Pro Ala Pro Thr Phe Gly Leu
 180 185

<210> 654

<211> 235

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (204)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 654

Met Gly Leu Pro Gly Leu Phe Cys Leu Ala Val Leu Ala Ala Ser Ser
 1 5 10 15

Phe Ser Lys Ala Arg Glu Glu Glu Ile Thr Pro Val Val Ser Ile Ala
 20 25 30

Tyr Lys Val Leu Glu Val Phe Pro Lys Gly Arg Trp Val Leu Ile Thr
 35 40 45

Cys Cys Ala Pro Gln Pro Pro Pro Pro Ile Thr Tyr Ser Leu Cys Gly
 50 55 60

Thr Lys Asn Ile Lys Val Ala Lys Lys Val Val Lys Thr His Glu Pro

<400> 656

Met Ala Ser Gly Ser Lys Ile Ser Ser
1 5

<210> 657

<211> 69

<212> PRT

<213> Homo sapiens

<400> 657

Met Val Pro Thr Pro Pro Gly Trp Val Gly Phe Phe Val Phe Trp Val
1 5 10 15Phe Leu Gly Gly Gly Leu Phe His Val Thr Ser Ile Ser Val Phe Ile
20 25 30Ser Tyr Leu Phe His Phe Gln Val Tyr His Gly Lys Cys Thr Asp Phe
35 40 45Phe Val Asn Asn Val Leu Gly Phe Ala Lys Lys Glu Lys Lys Lys Thr
50 55 60Leu Leu Ser Leu Pro
65

<210> 658

<211> 118

<212> PRT

<213> Homo sapiens

<400> 658

Met Pro Phe Thr Phe Ser Trp Cys Phe Ser Leu Trp Thr Leu Leu Asn
1 5 10 15His Arg Pro Asp Lys Ser Leu Gln Arg Lys Gly Leu Trp Ala Val Pro
20 25 30Glu Ala Gly Trp Gly Gln Asp Asn Thr Ala Ala Ser Pro Gly Cys Pro
35 40 45Leu Trp Gly Pro Leu Gly Ala Gly Lys Gly Ile Gly Gln Arg Gly Ser
50 55 60Gly Ala Gly His Glu Gly Pro Pro Ser Ala Leu Trp Leu Gln Gly Trp
65 70 75 80Arg Trp Phe Cys Pro Pro Ser Leu Pro Ser Gly Gly Ala Gly Gly Ser
85 90 95Ala Ala Gly Val Gly Thr Ser Pro Arg Met Ala Val Glu Gly Val Arg
100 105 110Thr Val Leu Gly Ser Pro
115

T02T60-23005650

<210> 659
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 659
 Met Phe Leu Leu Thr Ile Gly Lys Ile Glu Lys Ala Leu Cys Phe Leu
 1 5 10 15
 Phe Phe Cys Cys Cys Cys His Cys Cys Phe Phe Gln Lys Thr Ser Val
 20 25 30
 Ser Val Leu Ser
 35

<210> 660
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 660
 Asp Phe Leu Phe Phe Phe Pro Pro Cys Gly Ser His Cys Phe Leu Ser
 1 5 10 15
 Cys Leu Tyr Leu Ser Leu Cys Leu Ser Ser Ser Phe Pro Gln Met Ser
 20 25 30
 Gln Leu Ser Leu Pro Asn Phe Pro Ile
 35 40

<210> 661
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 661
 Met Arg Gln Gln Gln Thr His Leu Ala Ala Gly Val Leu Phe Cys Cys
 1 5 10 15
 Arg Leu Thr Phe Ser Ser Ser Val Ser Gly Lys Ser Gly
 20 25

<210> 662
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 662
 Met Met Asn Val Ser Leu Glu Ile Tyr Phe Val Val Phe Leu Ser Leu
 1 5 10 15
 Phe Cys Val Val Leu Pro Leu His Ala Leu Phe Leu Lys Ser Phe Phe
 20 25 30

Phe Leu Asp Phe Ala Cys Phe Gln Ile Leu
 35 40

<210> 663
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 663
 Met Gln Cys Asn Phe Leu Ser Ser Leu Glu Arg Trp Gly His Ile Pro
 1 5 10 15

Leu Gly Cys Phe Leu Leu Cys Val Ile Leu Ile Ser Leu Ala Gly Lys
 20 25 30

Gln Lys

<210> 664
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 664
 Met Thr Thr Phe Leu Leu Leu Leu Leu Val Ser Ile Phe Ser Ser
 1 5 10 15

Val Asn Cys Gly
 20

<210> 665
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 665
 Met Arg Ile Ala Ser Phe Cys Trp Glu Asp Arg Ile Phe His Ser Lys
 1 5 10 15

Phe

<210> 666
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 666
 Met Val Ile Phe Ile Ile Leu Leu Thr Cys Phe Gly Phe Ser Asn Gly
 1 5 10 15

Ser Phe Ser Phe Ser Leu
 20

<210> 667
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 667
 Met Val Ile Phe Ile Ile Leu Leu Thr Cys Phe Gly Phe Ser Asn Gly
 1 5 10 15
 Ser Phe Ser Phe Ser Leu
 20

<210> 668
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 668
 Met Val Val Val Thr Leu Met Leu Phe Leu
 1 5 10

<210> 669
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 669
 Leu Glu Ala Pro Ser Met Lys Thr Asp Thr Arg Thr Ile Phe Val Ala
 1 5 10 15
 Ile Phe Ser Cys Ile Ser Ile Leu Leu Leu Phe Leu Ser Val Phe Ile
 20 25 30
 Ile Tyr Arg Cys Ser Gln His Gly Glu Leu Arg Glu Arg Lys Gly Arg
 35 40 45
 Glu Gly Glu
 50

<210> 670
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 670
 Leu Pro Cys Leu Ala Gly Cys Arg Val Lys Phe Met Ile Met Lys
 1 5 10 15

<210> 671
 <211> 32

<212> PRT
 <213> Homo sapiens

<400> 671

Met Glu Lys Gly Ala Ala Lys Lys Asn Phe Trp Val Gln Gly Thr Val
 1 5 10 15
 Tyr Leu Leu Leu Leu Phe Met Pro Val Ala Gly Cys Pro Thr Thr Leu
 20 25 30

<210> 672

<211> 50

<212> PRT

<213> Homo sapiens

<400> 672

Met Ser Leu Ser Val Ala Trp Trp Leu Ser Val Cys Ser Ala Ala Gly
 1 5 10 15
 Glu Gly Pro Thr Pro Gly Gln Cys Ser Ala Phe Arg Arg Pro Thr Gly
 20 25 30
 Asn Gln Lys Phe Pro Asn Ile Met Ala Pro Ser Pro Leu Gln Ser Ser
 35 40 45
 Phe Pro
 50

<210> 673

<211> 40

<212> PRT

<213> Homo sapiens

<400> 673

Met Lys Asn Pro Ile Thr Lys Arg Trp Lys His Leu Thr Gly Thr Leu
 1 5 10 15
 Ile Leu Val Asn Ser Leu Asp Val Leu Arg Ala Ala Ala Phe Ser Pro
 20 25 30
 Ala Asp Gln Asp Asp Phe Val Ile
 35 40

<210> 674

<211> 22

<212> PRT

<213> Homo sapiens

<400> 674

Met Val Pro Ser Leu Asn Leu Tyr Leu Leu Val Ser Trp Asp Thr Leu
 1 5 10 15

Leu Glu Asn Phe Leu Met
20

<210> 675
<211> 66
<212> PRT
<213> Homo sapiens

<400> 675
Phe Tyr Leu Leu Val Leu Val Phe Leu Asn Ser Ile Phe Ala Glu Leu
1 5 10 15

Ser Leu Phe Leu Pro Cys Leu Ser Pro Val Cys Leu Ser Phe Val Val
20 25 30

Asp Ile Val Leu Ser Ser Pro Lys Tyr Leu Ser Leu Glu Thr Tyr Ser
35 40 45

Lys Arg Ile Leu Phe Ser Met Ser Val Phe Leu Leu Cys Cys Pro Pro
50 55 60

Cys Leu
65

<210> 676
<211> 2
<212> PRT
<213> Homo sapiens

<400> 676
Asp Ile
1

<210> 677
<211> 42
<212> PRT
<213> Homo sapiens

<400> 677
Phe Leu Pro Thr Leu Leu Ile Ile Ile Ser Leu Phe Gln Phe Gly Leu
1 5 10 15

Phe Phe Ser Phe Asn Glu Ser Asn Arg Ile His Gly Ser Phe Tyr Phe
20 25 30

Asn Val Phe Ile Leu Ser Gly Gln Cys Ile
35 40

<210> 678
<211> 15
<212> PRT
<213> Homo sapiens

<400> 678

Met Phe Glu Asp Asn Lys Trp Trp Cys Ile Leu Phe Leu Ile Arg
 1 5 10 15

<210> 679

<211> 18

<212> PRT

<213> Homo sapiens

<400> 679

Met Lys Thr Val Ser Pro Lys Cys Leu Arg Ile Thr Leu Ser Thr Ser
 1 5 10 15

Cys Pro

<210> 680

<211> 40

<212> PRT

<213> Homo sapiens

<400> 680

Met Arg Cys Ala Arg His Trp Lys Trp Leu Leu Leu Cys Phe Trp Gly
 1 5 10 15

Gln Leu Ile Cys Arg Arg Leu Trp Arg Arg Ser Gly Arg Gly Lys Cys
 20 25 30

Phe Leu Cys Cys Leu His Arg Glu
 35 40

<210> 681

<211> 31

<212> PRT

<213> Homo sapiens

<400> 681

Met Ala Ser Val Phe Leu Leu Leu Tyr Leu Glu Leu Phe Cys Gln Pro
 1 5 10 15

Phe Pro Ser Thr Leu Gly Ala Cys Lys Ser Arg Gly Ala Leu Phe
 20 25 30

<210> 682

<211> 51

<212> PRT

<213> Homo sapiens

<400> 682

Met Ala Phe Gln Ser Leu Leu Glu Met Lys Phe Phe Leu Cys Ala Ala
 1 5 10 15

Phe Pro Leu Gly Ala Gly Val Lys Met Phe His Tyr Leu Gly Pro Gly

20

25

30

Lys Pro Leu Pro Gln Ala Ser Pro Ser Pro His Pro His Arg Asn Arg
 35 40 45

Ile Trp Pro
 50

<210> 683
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 683
 Met Val Lys Thr Val Ile Trp Gly His His Gln Met Met Trp Thr Phe
 1 5 10 15

Leu Gln Val Phe Trp His Thr Gln Ala Ser Cys His Trp Cys Ile Phe
 20 25 30

Gln Leu Thr Ser Gly Asp Asp Arg Asn Ser Leu Gln Gly Leu Ser Ile
 35 40 45

Trp Asp Gly Tyr Ile Lys Arg Glu Thr Asn Trp Ser Lys Ser Pro Glu
 50 55 60

Arg Lys Ser His Ser Thr Asp Leu Ala Ser Val Leu Lys Asn Ser Asn
 65 70 75 80

Tyr Ile

<210> 684
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 684
 Met Glu Ile Tyr Val Ser Leu Gly Ile Val Gly Leu Ala Ile Leu Ala
 1 5 10 15

Leu Leu Ala Val Thr Ser Ile Pro Ser Val Ser Asp Ser Leu Thr Trp
 20 25 30

Arg Glu Phe His Tyr Ile Gln Val Asn Asn Ile
 35 40

<210> 685
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 685
 Met Leu Leu Val Ser Cys Cys Leu Ala Gly His Ile Cys Val Trp Asp
 1 5 10 15

Ala Gln Thr Gly Asp Cys Leu Thr Arg Ile Pro Arg Pro Gly Arg Gln
 20 25 30

Arg Arg Gly Gln Trp Arg Gly Gln Arg Ala
 35 40

<210> 686

<211> 55

<212> PRT

<213> Homo sapiens

<400> 686

Met Ser Met Ser Cys Pro Trp Leu Gly Thr Trp Ala Val Val Cys Ala
 1 5 10 15

Ser Pro Arg Gln Arg Asn Asp Ser Gln Gly Thr Asp Ala Arg Gly Gly
 20 25 30

Asn Arg Ala Asp Gln Arg Leu Pro Gly His Lys Arg Asn Leu Glu Glu
 35 40 45

Arg Thr Pro Ala Glu Gln Thr
 50 55

<210> 687

<211> 44

<212> PRT

<213> Homo sapiens

<400> 687

Met Trp Val Leu Leu Ser Leu Phe Cys Ile Phe Val Leu Leu Leu Ile
 1 5 10 15

Leu Phe Ala Phe Ile Ala Lys Thr His Ile Arg Leu Thr Met Ser Gln
 20 25 30

Ala Leu Phe Ser Val Leu His Arg Tyr Glu Phe Ile
 35 40

<210> 688

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

102160-2300559

<400> 696

Met Leu His Thr Met Arg Asn Val Arg Gly Cys Val Cys Val Cys Val
 1 5 10 15

Cys Val Cys Val Cys Val Ser Glu Gly His Leu Leu Asn Gly Thr Pro
 20 25 30

Lys Asn Thr Ile Val Phe Val Phe Ala Val Val Arg Gly Leu Asn Lys
 35 40 45

Cys Lys Leu Ala Gln Glu Met Leu Asp Leu Arg Gly Leu Glu Arg Pro
 50 55 60

Asp
 65

<210> 697

<211> 26

<212> PRT

<213> Homo sapiens

<400> 697

Met Phe Phe Leu Leu Leu Leu Met Leu Leu Pro His Cys Leu Asn Tyr
 1 5 10 15

Tyr Ile Leu Leu Thr Asn Leu Thr Phe Trp
 20 25

<210> 698

<211> 6

<212> PRT

<213> Homo sapiens

<400> 698

Met Leu Leu Pro Leu Leu
 1 5

<210> 699

<211> 19

<212> PRT

<213> Homo sapiens

<400> 699

Met Leu Pro Pro Leu Leu Glu Trp Ala Val Phe Val Pro Leu Ser Gln
 1 5 10 15

Leu Leu Leu

<210> 700

<211> 39

<212> PRT

<213> Homo sapiens

<400> 700

Met Phe Phe Leu Ile Lys Val Pro Leu Asn Trp Pro Leu Tyr Gln Pro
1 5 10 15

Leu Val Leu Ala Lys Cys Pro Lys His Ala Leu Gly Pro Arg His Val
20 25 30

Thr Ile His Arg Leu Ser Val
35

<210> 701

<211> 48

<212> PRT

<213> Homo sapiens

<400> 701

Ile Asn Ser Trp Lys Arg Pro Val Asn Ala Ser Cys Phe Cys Ile Cys
1 5 10 15

Val Leu Arg Trp Ala Leu Trp Phe Leu Cys Thr Gln Ser Thr Phe Leu
20 25 30

Val Ile Thr Ile Val Ile Phe Ile Val Met Thr Ala Pro Glu Leu Trp
35 40 45

<210> 702

<211> 52

<212> PRT

<213> Homo sapiens

<400> 702

Thr Phe Gly Leu Phe Leu Leu Phe Leu Ala Ile Val Asn Ser Ala Val
1 5 10 15

Met Asn Thr Asp Val Gln Phe Phe Gly Val Asn Ile Cys Phe Tyr Ser
20 25 30

Phe Gly Tyr Ile Pro Arg Cys Gly Ile Ala Gly Ser Tyr Met Val Ile
35 40 45

Leu Ser Leu Thr
50

<210> 703

<211> 9

<212> PRT

<213> Homo sapiens

<400> 703

Ala Leu Trp Leu Leu Leu Gln Leu Ser

0950032-091201

1

5

<210> 704
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 704
 Ala Leu Trp Leu Leu Leu Gln Leu Ser
 1 5

<210> 705
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 705
 Ala Leu Trp Leu Leu Leu Gln Leu Ser
 1 5

<210> 706
 <211> 3
 <212> PRT
 <213> Homo sapiens

<400> 706
 Gly Arg Trp
 1

<210> 707
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 707
 Met Val Leu Ala Leu Ala Val Phe Thr Leu Leu Ala Ser Val Cys Cys
 1 5 10 15

Gln Leu His Ser His Ser Phe Tyr Pro Cys Met Ser Cys Phe Tyr Ser
 20 25 30

Ser Leu Ser Phe
 35

<210> 708
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 708
 Met Trp Leu Leu Trp Gln Pro Tyr Leu Ala Gly Phe Leu Leu Gln Val

T03160-280560

1 5 10 15
 Leu Glu Gly Arg Val Ala Gln Ser Gln Ala Glu Ala Asp Ser Gly Val
 20 25 30
 Leu Gly Ala Gly Gly Thr Thr Pro Ala Gly Gly Arg Arg Gly Leu Cys
 35 40 45
 Gln Gln Ser Glu Gln Pro Arg Gly Pro Ile Pro His Ile Leu Gln Val
 50 55 60

<210> 709
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 709
 Met Leu Ser Gly Ser Ser Arg Gly Ser Gln Gly Ser Leu Asn Leu His
 1 5 10 15
 Val Cys Leu Trp Leu Pro Pro Gln Pro Pro Leu His Pro Ser Tyr Ser
 20 25 30
 Phe Ser Phe Phe Leu Gln Phe Trp Glu
 35 40

<210> 710
 <211> 223
 <212> PRT
 <213> Homo sapiens

<400> 710
 Met Trp Gly Leu Val Ser Ala Leu Ala Ala Thr Leu Cys Phe Ser Leu
 1 5 10 15
 Gln Asn Ile Phe Ser Lys Lys Val Leu Arg Asp Ser Arg Ile His His
 20 25 30
 Leu Arg Leu Leu Asn Ile Leu Gly Cys His Ala Val Phe Phe Met Ile
 35 40 45
 Pro Thr Trp Val Leu Val Asp Leu Ser Ala Phe Leu Val Ser Ser Asp
 50 55 60
 Leu Thr Tyr Val Tyr Gln Trp Pro Trp Thr Leu Leu Leu Ala Val
 65 70 75 80
 Ser Gly Phe Cys Asn Phe Ala Gln Asn Val Ile Ala Phe Ser Ile Leu
 85 90 95
 Asn Leu Val Ser Pro Leu Ser Tyr Ser Val Ala Asn Ala Thr Lys Arg
 100 105 110
 Ile Met Val Ile Thr Val Ser Leu Ile Met Leu Arg Asn Pro Val Thr

115 120 125

Ser Thr Asn Val Leu Gly Met Met Thr Ala Ile Leu Gly Val Phe Leu
130 135 140

Tyr Asn Lys Thr Lys Tyr Asp Ala Asn Gln Gln Ala Arg Lys His Leu
145 150 155 160

Leu Pro Val Thr Thr Ala Asp Leu Ser Ser Lys Glu Arg His Arg Ser
165 170 175

Pro Leu Glu Lys Pro His Asn Gly Leu Leu Phe Pro Gln His Gly Asp
180 185 190

Tyr Gln Tyr Gly Arg Asn Asn Ile Leu Thr Asp His Phe Gln Tyr Ser
195 200 205

Arg Gln Ser Tyr Pro Asn Ser Tyr Ser Leu Asn Arg Tyr Asp Val
210 215 220

<210> 711
<211> 47
<212> PRT
<213> Homo sapiens

<400> 711
Met Thr Leu Thr Ala Trp Thr Gly Ala Cys Trp Pro Ser Phe Thr Trp
1 5 10 15

Leu Met Pro Arg Thr Ser Trp Arg Met Leu Leu Leu Leu Phe Trp Thr
20 25 30

Ser Ser Met Ile Trp Leu Pro Arg Glu Cys Gly Ser Phe Ser Thr
35 40 45

<210> 712
<211> 24
<212> PRT
<213> Homo sapiens

<400> 712
Met Gly Glu Leu Leu Trp Leu Val Ile Leu Cys Ala His Ile Ile Val
1 5 10 15

Ala Thr His His Cys Trp Glu Asn
20

<210> 713
<211> 8
<212> PRT
<213> Homo sapiens

<400> 713
Met Phe Gln Arg Leu Leu Lys Tyr
1 5

50

55

<210> 718
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 718
 Met Ser Ile Trp Leu Met His Phe Cys Leu Leu Val Leu Gly Lys Arg
 1 5 10 15

Met Ser Ile Leu Asp Val Lys Leu
 20

<210> 719
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 719
 Ala Pro Arg Phe Pro Ser Leu Leu Val Leu Leu Pro Gly Ile Leu Phe
 1 5 10 15

Pro Gly Leu Ser Gly His Cys Phe Val Ser Gly Phe Phe Thr Leu Leu
 20 25 30

<210> 720
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 720
 Met Tyr Phe Trp Cys Cys
 1 5

<210> 721
 <211> 327
 <212> PRT
 <213> Homo sapiens

<400> 721
 Met Leu Ala Thr Ser Gln Ala Leu Asp Thr Val Trp Arg Met Ala Lys
 1 5 10 15

Gly Phe Val Met Leu Ala Val Ser Phe Leu Val Ala Ala Ile Cys Tyr
 20 25 30

Phe Arg Arg Leu His Leu Tyr Ser Gly His Lys Leu Lys Trp Trp Ile
 35 40 45

09950005660
 T02T60-09950005660

Gly Tyr Leu Gln Arg Lys Phe Lys Arg Asn Leu Ser Val Glu Ala Glu
 50 55 60
 Val Asp Leu Leu Ser Tyr Cys Ala Arg Glu Trp Lys Gly Glu Thr Pro
 65 70 75 80
 Arg Asn Lys Leu Met Arg Lys Ala Tyr Glu Glu Leu Phe Trp Arg His
 85 90 95
 His Ile Lys Cys Val Arg Gln Val Arg Arg Asp Asn Tyr Asp Ala Leu
 100 105 110
 Arg Ser Val Leu Phe Gln Ile Phe Ser Gln Gly Ile Ser Phe Pro Ser
 115 120 125
 Trp Met Lys Glu Lys Asp Ile Val Lys Leu Pro Glu Lys Leu Leu Phe
 130 135 140
 Ser Gln Gly Cys Asn Trp Ile Gln Gln Tyr Ser Phe Gly Pro Glu Lys
 145 150 155 160
 Tyr Thr Gly Ser Asn Val Phe Gly Lys Leu Arg Lys Tyr Val Glu Leu
 165 170 175
 Leu Lys Thr Gln Trp Thr Glu Phe Asn Gly Ile Arg Asp Tyr His Lys
 180 185 190
 Arg Gly Ser Met Cys Asn Thr Leu Phe Ser Asp Ala Ile Leu Glu Tyr
 195 200 205
 Lys Leu Tyr Glu Ala Leu Lys Phe Ile Met Leu Tyr Gln Val Thr Glu
 210 215 220
 Val Tyr Glu Gln Met Lys Thr Lys Lys Val Ile Pro Ser Leu Phe Arg
 225 230 235 240
 Leu Leu Phe Ser Arg Glu Thr Ser Ser Asp Pro Leu Ser Phe Met Met
 245 250 255
 Asn His Leu Asn Ser Val Gly Asp Thr Cys Gly Leu Glu Gln Ile Asp
 260 265 270
 Met Phe Ile Leu Gly Tyr Ser Leu Glu Val Lys Ile Lys Val Phe Arg
 275 280 285
 Leu Phe Lys Phe Asn Ser Arg Asp Phe Glu Val Cys Tyr Pro Glu Glu
 290 295 300
 Pro Leu Arg Asp Trp Pro Glu Ile Ser Leu Leu Thr Glu Asn Asp Arg
 305 310 315 320
 His Tyr His Ile Pro Val Phe
 325

<210> 722

<211> 327

<212> PRT

<213> Homo sapiens

<400> 722

Met	Leu	Ala	Thr	Ser	Gln	Ala	Leu	Asp	Thr	Val	Trp	Arg	Met	Ala	Lys
1				5					10					15	
Gly	Phe	Val	Met	Leu	Ala	Val	Ser	Phe	Leu	Val	Ala	Ala	Ile	Cys	Tyr
			20					25					30		
Phe	Arg	Arg	Leu	His	Leu	Tyr	Ser	Gly	His	Lys	Leu	Lys	Trp	Trp	Ile
	35						40					45			
Gly	Tyr	Leu	Gln	Arg	Lys	Phe	Lys	Arg	Asn	Leu	Ser	Val	Glu	Ala	Glu
	50					55					60				
Val	Asp	Leu	Leu	Ser	Tyr	Cys	Ala	Arg	Glu	Trp	Lys	Gly	Glu	Thr	Pro
65					70					75					80
Arg	Asn	Lys	Leu	Met	Arg	Lys	Ala	Tyr	Glu	Glu	Leu	Phe	Trp	Arg	His
				85					90					95	
His	Ile	Lys	Cys	Val	Arg	Gln	Val	Arg	Arg	Asp	Asn	Tyr	Asp	Ala	Leu
			100					105					110		
Arg	Ser	Val	Leu	Phe	Gln	Ile	Phe	Ser	Gln	Gly	Ile	Ser	Phe	Pro	Ser
		115					120					125			
Trp	Met	Lys	Glu	Lys	Asp	Ile	Val	Lys	Leu	Pro	Glu	Lys	Leu	Leu	Phe
	130					135					140				
Ser	Gln	Gly	Cys	Asn	Trp	Ile	Gln	Gln	Tyr	Ser	Phe	Gly	Pro	Glu	Lys
145					150					155					160
Tyr	Thr	Gly	Ser	Asn	Val	Phe	Gly	Lys	Leu	Arg	Lys	Tyr	Val	Glu	Leu
				165					170					175	
Leu	Lys	Thr	Gln	Trp	Thr	Glu	Phe	Asn	Gly	Ile	Arg	Asp	Tyr	His	Lys
			180					185					190		
Arg	Gly	Ser	Met	Cys	Asn	Thr	Leu	Phe	Ser	Asp	Ala	Ile	Leu	Glu	Tyr
		195					200					205			
Lys	Leu	Tyr	Glu	Ala	Leu	Lys	Phe	Ile	Met	Leu	Tyr	Gln	Val	Thr	Glu
	210					215					220				
Val	Tyr	Glu	Gln	Met	Lys	Thr	Lys	Lys	Val	Ile	Pro	Ser	Leu	Phe	Arg
225					230					235					240
Leu	Leu	Phe	Ser	Arg	Glu	Thr	Ser	Ser	Asp	Pro	Leu	Ser	Phe	Met	Met
				245					250					255	
Asn	His	Leu	Asn	Ser	Val	Gly	Asp	Thr	Cys	Gly	Leu	Glu	Gln	Ile	Asp
			260					265					270		
Met	Phe	Ile	Leu	Gly	Tyr	Ser	Leu	Glu	Val	Lys	Ile	Lys	Val	Phe	Arg
		275					280					285			
Leu	Phe	Lys	Phe	Asn	Ser	Arg	Asp	Phe	Glu	Val	Cys	Tyr	Pro	Glu	Glu
	290					295					300				
Pro	Leu	Arg	Asp	Trp	Pro	Glu	Ile	Ser	Leu	Leu	Thr	Glu	Asn	Asp	Arg
305					310					315					320

0995083-01101

His Tyr His Ile Pro Val Phe
325

```

<400> 723
Met Trp Pro Phe Tyr Leu Arg Arg Val Val Val Gln Ser Ser Leu Gly
  1          5          10
Pro Met Lys Leu Pro Cys Ser Leu Trp Leu Trp Thr Val Val Ala Ser
  20          25          30
Cys Ile Cys Cys Pro His Gly Gly Val Phe Leu Cys Gly Ser Cys Ser
  35          40          45
Cys Cys Val Ser Gly Leu Leu Leu
  50          55

```

```
<400> 724
Met Gly His Thr Pro
  1                               5
```

```
<210> 725
<211> 9
<212> PRT
<213> Homo sapiens
```

```
<400> 725
Leu Lys Ile Leu Phe Leu Ile Glu Val
  1             5
```

```
<210> 726
<211> 27
<212> PRT
<213> Homo sapiens
```

<400> 726
Met Thr Ser Ser Val Ala Cys Pro Gly Ala Arg Val Cys Leu Ala Gly
1 5 10 15

Ser Trp Pro Ala Ala Ser Ser Ser Pro Cys Trp
20 25

<210> 727
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 727
 Phe Gly Tyr Phe Trp Tyr Arg Trp Pro Leu Gly Trp Ile Phe Leu His
 1 5 10 15
 Ser Val Pro Gln Leu Gln Glu Gly Val Pro Leu Val Cys Glu Tyr Val
 20 25 30

Cys Leu

<210> 728
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 728
 Leu Ala Thr Leu Leu Leu Arg Leu Leu Leu Ser Leu Gly Thr Gly Cys
 1 5 10 15

Gln Arg

<210> 729
 <211> 43
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 729
 Asp Gln Phe Ser Thr Ala Val Arg His Arg Val Pro Ala Gly His Trp
 1 5 10 15

Gln Val Ala Gly Ser Thr Pro Thr Pro Cys Pro Xaa Asn Pro Asp Leu
 20 25 30

Xaa Pro Gly Lys Glu Arg Glu Gly Pro Val Ser
 35 40

<210> 730
 <211> 117
 <212> PRT

00500560-09101

<213> Homo sapiens

[illegible]

<400> 731

Met 1	Ala	Glu	Ala	Leu 5	Leu	Leu	Arg	Ala	Thr 10	Phe	Tyr	Leu	Leu	Ile 15	Gly
Asn	Ala	Asn	Ala 20	Ala	Lys	Pro	Asp	Leu 25	Asp	Lys	Val	Ile	Ser 30	Leu	Lys
Glu	Ala	Asn 35	Val	Lys	Leu	Arg	Ala 40	Asn	Ala	Leu	Ile	Lys 45	Arg	Gly	Ser
Met 50	Tyr	Met	Gln	Gln	Gln	Gln 55	Pro	Leu	Leu	Ser	Thr 60	Gln	Asp	Phe	Asn
Met 65	Ala	Ala	Asp	Ile	Asp 70	Pro	Gln	Asn	Ala	Asp 75	Val	Tyr	His	His	Arg 80
Gly	Gln	Leu	Lys	Ile 85	Leu	Leu	Asp	Gln	Val 90	Glu	Glu	Ala	Val	Ala 95	Asp
Phe	Asp	Glu	Cys 100	Ile	Arg	Leu	Arg	Pro 105	Glu	Ser	Ala	Leu	Ala 110	Gln	Ala
Gln	Lys	Cys 115	Phe	Ala	Leu	Tyr	Arg 120	Gln	Ala	Tyr	Thr	Gly 125	Asn	Asn	Ser
Ser 130	Gln	Ile	Gln	Ala	Ala	Met 135	Lys	Gly	Phe	Glu	Glu 140	Val	Ile	Lys	Lys

Phe Pro Arg Cys Ala Glu Gly Tyr Ala Leu Tyr Ala Gln Ala Leu Thr
145 150 155 160

Asp Gln Gln Gln Phe Gly Lys Ala Asp Glu Met Tyr Asp Lys Cys Ile
165 170 175

Asp Leu Glu Pro Asp Asn Ala Thr Thr Tyr Val His Lys Gly Leu Leu
180 185 190

Gln Leu Gln Trp Lys Gln Asp Leu Asp Arg Gly Leu Glu Leu Ile Ser
195 200 205

Lys Ala Ile Glu Ile Asp Asn Lys Cys Asp Phe Ala Tyr Glu Thr Met
210 215 220

Gly Thr Ile Glu Val Gln Arg Gly Asn Met Glu Lys Ala Ile Asp Met
225 230 235 240

Phe Asn Lys Ala Ile Asn Leu Ala Lys Ser Glu Met Glu Met Ala His
245 250 255

Leu Tyr Ser Leu Cys Asp Ala Ala His Ala Gln Thr Glu Val Ala Lys
260 265 270

Lys Tyr Gly Leu Lys Pro Pro Thr Leu
275 280

<210> 732

<211> 50

<212> PRT

<213> Homo sapiens

<400> 732

Met His Leu Cys Leu Leu Trp Gln Leu His Tyr Val Val Gly Asp Val
1 5 10 15

Asp Ala Glu Pro His Ile Leu Ser Ser Cys Leu Cys Tyr Ser Pro Leu
20 25 30

Cys Phe Thr Phe Ser Asn Glu Cys Gln Ala Gly Asp Phe Gln Ile Gln
35 40 45

Lys Phe
50

<210> 733

<211> 50

<212> PRT

<213> Homo sapiens

<400> 733

Met Val Tyr Ile Tyr Tyr Leu Tyr Phe Leu Thr Phe Tyr Tyr Leu Leu
1 5 10 15

Asn Pro Leu His Gln Thr Thr Thr Tyr Gly Thr Ser Gln Gly Ser Ser
20 25 30

Leu Gly Ala Leu Phe Phe Lys Tyr Ser Val Leu Met Lys Asn Lys Phe
 35 40 45

Asn Ile
 50

<210> 734
 <211> 36
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 734
 Met Phe Asp Ser Thr Pro Val Leu Val Ala Leu Phe Leu His Pro Arg
 1 5 10 15
 Leu Gly Ala Ser Tyr Ser Leu Cys Leu Gln His Ser Ser Ser Pro Cys
 20 25 30
 Leu Pro Xaa Ser
 35

<210> 735
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 735
 Met Glu Leu Trp Leu Pro Arg Tyr Leu Lys Gly Leu Ser Cys Leu Leu
 1 5 10 15
 Leu Phe Asp Leu Phe Asn Leu Ile Trp Ala Ile Lys Tyr His Phe Ser
 20 25 30
 Gly Leu Phe Phe
 35

<210> 736
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 736
 Met Ser His Ser Leu Ser Val Ala Cys Val Tyr
 1 5 10

<210> 737
 <211> 4

<212> PRT
<213> Homo sapiens

<400> 737
Leu Asp Phe Cys
1

<210> 738
<211> 10
<212> PRT
<213> Homo sapiens

<400> 738
Met Cys Gly Ala Phe Gln Asp Ser Pro Gln
1 5 10

<210> 739
<211> 41
<212> PRT
<213> Homo sapiens

<400> 739
Met Tyr Asn His Leu Ser Leu Asn Cys Thr Leu Pro Leu Phe Ile Cys
1 5 10 15

Ala Leu Phe Leu Val Tyr Ser Val Ile Ile Pro His Leu Lys Asn Lys
20 25 30

Asn His Tyr Cys Tyr Ile Leu Leu Ile
35 40

<210> 740
<211> 46
<212> PRT
<213> Homo sapiens

<400> 740
Met Met Ala Ile Pro Tyr Phe Ile Leu Ala Glu Leu Asn Phe Ile Phe
1 5 10 15

Leu Cys Ile Leu Leu Pro Asp Asp Leu Gly Gly Lys Ser Arg Leu Val
20 25 30

Lys Ala Asn His Gly Ser Ser Ile Leu Met Ile Leu Leu Gly
35 40 45

<210> 741
<211> 348
<212> PRT
<213> Homo sapiens

<400> 741
Met Asn Met Thr Gln Ala Arg Val Leu Val Ala Ala Val Val Gly Leu

09050032-09050032

1	5	10	15
Val Ala Val	Leu Leu Tyr Ala Ser	Ile His Lys Ile	Glu Glu Gly His
	20	25	30
Leu Ala Val	Tyr Tyr Arg Gly Gly	Ala Leu Leu Thr	Ser Pro Ser Gly
	35	40	45
Pro Gly Tyr	His Ile Met Leu Pro	Phe Ile Thr Thr	Phe Arg Ser Val
	50	55	60
Gln Thr Thr	Leu Gln Thr Asp	Glu Val Lys Asn	Val Pro Cys Gly Thr
	65	70	75
Ser Gly Gly	Val Met Ile Tyr	Ile Asp Arg Ile	Glu Val Val Asn Met
	85	90	95
Leu Ala Pro	Tyr Ala Val Phe Asp	Ile Val Arg Asn	Tyr Thr Ala Asp
	100	105	110
Tyr Asp Lys	Thr Leu Ile Phe Asn	Lys Ile His His	Glu Leu Asn Gln
	115	120	125
Phe Cys Ser	Ala His Thr Leu	Gln Glu Val Tyr	Ile Glu Leu Phe Asp
	130	135	140
Gln Ile Asp	Glu Asn Leu Lys	Gln Ala Leu Gln	Lys Asp Leu Asn Leu
	145	150	155
Met Ala Pro	Gly Leu Thr Ile	Gln Ala Val Arg	Val Thr Lys Pro Lys
	165	170	175
Ile Pro Glu	Ala Ile Arg Arg	Asn Phe Glu Leu	Met Glu Ala Glu Lys
	180	185	190
Thr Lys Leu	Leu Ile Ala Ala	Gln Lys Gln Lys	Val Val Glu Lys Glu
	195	200	205
Ala Glu Thr	Glu Arg Lys Lys	Ala Val Ile Glu	Ala Glu Lys Ile Ala
	210	215	220
Gln Val Ala	Lys Ile Arg Phe	Gln Gln Lys Val	Met Glu Lys Glu Thr
	225	230	235
Glu Lys Arg	Ile Ser Glu Ile	Glu Asp Ala Ala	Phe Leu Ala Arg Glu
	245	250	255
Lys Ala Lys	Ala Asp Ala Glu	Tyr Tyr Ala Ala	His Lys Tyr Ala Thr
	260	265	270
Ser Asn Lys	His Lys Leu Thr	Pro Glu Tyr Leu	Glu Leu Lys Lys Tyr
	275	280	285
Gln Ala Ile	Ala Ser Asn Ser	Lys Ile Tyr Phe	Gly Ser Asn Ile Pro
	290	295	300
Asn Met Phe	Val Asp Ser Ser	Cys Ala Leu Lys	Tyr Ser Asp Ile Arg
	305	310	315
Thr Gly Arg	Glu Ser Ser Leu	Pro Ser Lys Glu	Ala Leu Glu Pro Ser
	325	330	335

Gly Glu Asn Val Ile Gln Asn Lys Glu Ser Thr Gly
 340 345

<210> 742
 <211> 66
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 742
 Met Cys Leu Leu Ser Leu Ala Tyr Phe Ile Leu Val Leu Gly Tyr Gly
 1 5 10 15
 Ala Ser Tyr Gly Lys Gly Lys Gly Pro Phe Arg Lys Thr Ser Phe Gly
 20 25 30
 Glu Ile Lys Met Trp Thr Val Xaa Lys Lys Lys Lys Lys Lys Lys Lys
 35 40 45
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 50 55 60
 Lys Lys
 65

<210> 743
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 743
 Met Leu Ser Gln Pro Pro His Ser Lys Arg Gly Tyr Arg Leu
 1 5 10

<210> 744
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 744
 Met Phe Leu Ser Phe Leu Asn Ile Leu Ile Ile Leu Leu Gln Gly Ile
 1 5 10 15
 Trp Glu Pro Tyr Leu Val Phe Ala Cys Asn Val Ile Arg Tyr Asn Tyr
 20 25 30
 Thr Met

09950082 "091201"

<210> 752
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 752
 Met Glu Arg Leu Gln Val Val Cys Phe Ala Leu Val His Phe Val Phe
 1 5 10 15
 Ser Glu Phe Gln Thr Val Lys Lys Lys Lys Lys Lys
 20 25

<210> 753
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 753
 Met Val Cys Leu Leu Val His Ser Phe Leu Ser Phe
 1 5 10

<210> 754
 <211> 182
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 754
 Xaa Leu Leu Pro Xaa Thr Pro Leu Gly Ile Xaa Tyr Asp Gly Leu Met
 1 5 10 15
 Ser Phe Ala Gly Gly Lys Leu Leu Ile Val Gly Glu Asn Ala Thr Ala
 20 25 30
 His Ile Phe Ala Thr Tyr Pro Ala Pro Tyr Leu Ser Leu Ala Asn Ala
 35 40 45
 Phe Ala Asp Gln Val Val Ala Thr Met Ile Leu Leu Ile Ile Val Phe
 50 55 60

095005660
 T.03T60-23005660

Ala Ile Phe Asp Ser Arg Asn Leu Gly Ala Pro Arg Gly Leu Glu Pro
65 70 75 80

Ile Ala Ile Gly Leu Leu Ile Ile Val Ile Ala Ser Ser Leu Gly Leu
85 90 95

Asn Ser Gly Cys Ala Met Asn Pro Ala Arg Asp Leu Ser Pro Arg Leu
100 105 110

Phe Thr Ala Leu Ala Gly Trp Gly Phe Glu Val Phe Arg Ala Gly Asn
115 120 125

Asn Phe Trp Trp Ile Pro Val Val Gly Pro Leu Val Gly Ala Val Ile
130 135 140

Gly Gly Leu Ile Tyr Val Leu Val Ile Glu Ile His His Pro Glu Pro
145 150 155 160

Asp Ser Val Phe Lys Ala Glu Gln Ser Glu Asp Lys Pro Glu Lys Tyr
165 170 175

Glu Leu Ser Val Ile Met
180

<210> 755

<211> 52

<212> PRT

<213> Homo sapiens

<400> 755

Met Lys Trp Val Leu Thr Cys Thr Thr Leu Glu Val Val Cys Leu Ala
1 5 10 15

Cys Asp Lys His Ala Ala Asp Val Met Leu Ala Phe Ile Ile Ile Gly
20 25 30

Tyr Leu Pro Tyr Pro Arg Met Ser Ser Cys Pro Leu Ser Pro Leu Ile
35 40 45

Ile Asp Arg Ser
50

<210> 756

<211> 30

<212> PRT

<213> Homo sapiens

<400> 756

Met Ala Lys Phe Thr Ser Trp Phe Leu Val Phe Phe Val Leu Val Ala
1 5 10 15

His Ser Leu His Ile Leu Pro His Pro Val Cys Leu Gly Ser
20 25 30

0050032-091201

<210> 757
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 757
 Met Asn Ser Gln Val Leu Tyr Phe Thr Val Leu Val Cys Leu Met Glu
 1 5 10 15
 Ile Ser Arg Trp Ser His Lys Asn Ile Leu Cys Ser Val Pro Ser Lys
 20 25 30
 Arg Thr Ile Tyr Phe Ser Ser Leu Ile Val Pro Gln Ser His Ile Trp
 35 40 45
 Trp Trp Ser Ala Lys Ser His Leu Val
 50 55

<210> 758
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 758
 Met Asn Ser Gln Val Leu Tyr Phe Thr Val Leu Val Cys Leu Met Glu
 1 5 10 15
 Ile Ser Arg Trp Ser His Lys Asn Ile Leu Cys Ser Val Pro Ser Lys
 20 25 30
 Arg Thr Ile Tyr Phe Ser Ser Leu Ile Val Pro Gln Ser His Ile Trp
 35 40 45
 Trp Trp Ser Ala Lys Ser His Leu Val
 50 55

<210> 759
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 759
 Met Phe His Val Cys Cys Ala Phe Leu Asn Phe Met Leu His Ser Lys
 1 5 10 15
 Thr Val Val Leu Phe Leu Trp Cys Leu Asp Ser Cys Gly Val Cys Phe
 20 25 30

<210> 760
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 760

Met Tyr Pro Leu Asp Val Asp Asn Asn Val Pro Phe Leu Ser Leu Phe
 1 5 10 15

Leu Leu Leu Leu Leu Lys Leu Ile Val Leu Pro Asn Leu Leu Leu Cys
 20 25 30

Phe Phe Pro Asn Thr Val Ile Tyr Leu Ile Cys Arg Gln Glu Pro Cys
 35 40 45

Leu Cys
 50

<210> 761

<211> 43

<212> PRT

<213> Homo sapiens

<400> 761

Met Lys Ala Ile Ser Val Ser Leu Leu Arg Leu Thr Lys Leu Leu Trp
 1 5 10 15

Phe Phe Ser Ile Val Leu Tyr Val Pro Leu Leu Ala Val Leu Leu Phe
 20 25 30

Asn Thr Val Leu Tyr Phe Phe Ser Lys Cys Thr
 35 40

<210> 762

<211> 35

<212> PRT

<213> Homo sapiens

<400> 762

Met Ala Phe Leu Ile Leu His Gly Val Gln Met Thr Thr Ile Leu Leu
 1 5 10 15

Leu Val Ala Gln Met Thr Ala Leu Ser Phe Gly Phe Gly Met Tyr Lys
 20 25 30

Gln Glu Asn
 35

<210> 763

<211> 23

<212> PRT

<213> Homo sapiens

<400> 763

Tyr Val Cys Val Tyr Val Val Cys Cys Tyr Leu His Gly Lys Ile Trp
 1 5 10 15

His His Gln Gln Lys Ile Tyr
 20

<210> 764
 <211> 43
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 764
 Met Cys Asn Gln Val Phe Leu Leu Leu Ile Leu Ile Leu Xaa Asp Asp
 1 5 10 15
 His Phe Tyr Thr Leu Trp Gln Ser Leu Ile Ala Ser Val Ser Cys Leu
 20 25 30
 Glu Asn Glu Phe Ile Ile Tyr Leu Leu Gly Asn
 35 40

<210> 765
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 765
 Met Arg Lys Leu Ala Phe Gly Leu Arg Ile Ser Tyr Cys Ser
 1 5 10

<210> 766
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 766
 Met Leu Tyr Phe Leu Val Gln Leu Leu Thr Val Leu Ser Leu Leu Ser
 1 5 10 15
 Gly Met Ser Phe Leu Ile Arg Arg Gln Glu Glu Asn Lys Asn Gln Thr
 20 25 30
 Val Ser His Asn Gln Lys Pro Pro Leu Trp Gln Arg Gly Leu His Arg
 35 40 45
 His Gln Gly Val Pro Pro Asp Arg Glu Arg Leu Gln Pro Ser Glu Ala
 50 55 60
 Ile Leu Arg Ser Ser Cys Leu Gly Val
 65 70

<210> 767
 <211> 42

<212> PRT
 <213> Homo sapiens

<400> 767

Met Ser Lys Phe Val Ser Leu Pro Val Phe Leu Ala Cys Ile Ser Pro
 1 5 10 15

Trp Phe Asn Ser Tyr Gln Ile Phe Gly Arg Gly Gly Thr Glu Val Ser
 20 25 30

Ser His Ser Arg Ala Leu Gly Cys Pro Tyr
 35 40

<210> 768

<211> 450

<212> PRT

<213> Homo sapiens

<400> 768

Met Val Pro Leu Val Ala Val Val Ser Gly Pro Arg Ala Gln Leu Phe
 1 5 10 15

Ala Cys Leu Leu Arg Leu Gly Thr Gln Gln Val Gly Pro Leu Gln Leu
 20 25 30

His Thr Gly Ala Ser His Ala Ala Arg Asn His Tyr Glu Val Leu Val
 35 40 45

Leu Gly Gly Gly Ser Gly Gly Ile Thr Met Ala Ala Arg Met Lys Arg
 50 55 60

Lys Val Gly Ala Glu Asn Val Ala Ile Val Glu Pro Ser Glu Arg His
 65 70 75 80

Phe Tyr Gln Pro Ile Trp Thr Leu Val Gly Ala Gly Ala Lys Gln Leu
 85 90 95

Ser Ser Ser Gly Arg Pro Thr Ala Ser Val Ile Pro Ser Gly Val Glu
 100 105 110

Trp Ile Lys Ala Arg Val Thr Glu Leu Asn Pro Asp Lys Asn Cys Ile
 115 120 125

His Thr Asp Asp Asp Glu Lys Ile Ser Tyr Arg Tyr Leu Ile Ile Ala
 130 135 140

Leu Gly Ile Gln Leu Asp Tyr Glu Lys Ile Lys Gly Leu Pro Glu Gly
 145 150 155 160

Phe Ala His Pro Lys Ile Gly Ser Asn Tyr Ser Val Lys Thr Val Glu
 165 170 175

Lys Thr Trp Lys Ala Leu Gln Asp Phe Lys Glu Gly Asn Ala Ile Phe
 180 185 190

Thr Phe Pro Asn Thr Pro Val Lys Cys Ala Gly Ala Pro Gln Lys Ile
 195 200 205

Met Tyr Leu Ser Glu Ala Tyr Phe Arg Lys Thr Gly Lys Arg Ser Lys

095008-09101

0950032-091201

210 215 220
 Ala Asn Ile Ile Phe Asn Thr Ser Leu Gly Ala Ile Phe Gly Val Lys
 225 230 235 240
 Lys Tyr Ala Asp Ala Leu Gln Glu Ile Ile Gln Glu Arg Asn Leu Thr
 245 250 255
 Val Asn Tyr Lys Lys Asn Leu Ile Glu Val Arg Ala Asp Lys Gln Glu
 260 265 270
 Ala Val Phe Glu Asn Leu Asp Lys Pro Gly Glu Thr Gln Val Ile Ser
 275 280 285
 Tyr Glu Met Leu His Val Thr Pro Pro Met Ser Pro Pro Asp Val Leu
 290 295 300
 Lys Thr Ser Pro Val Ala Asp Ala Ala Gly Trp Val Asp Val Asp Lys
 305 310 315 320
 Glu Thr Leu Gln His Arg Arg Tyr Pro Asn Val Phe Gly Ile Gly Asp
 325 330 335
 Cys Thr Asn Leu Pro Thr Ser Lys Thr Ala Ala Ala Val Ala Ala Gln
 340 345 350
 Ser Gly Ile Leu Asp Arg Thr Ile Ser Val Ile Met Lys Asn Gln Thr
 355 360 365
 Pro Thr Lys Lys Tyr Asp Gly Tyr Thr Ser Cys Pro Leu Val Thr Gly
 370 375 380
 Tyr Asn Arg Val Ile Leu Ala Glu Phe Asp Tyr Lys Ala Glu Pro Leu
 385 390 395 400
 Glu Thr Phe Pro Phe Asp Gln Ser Lys Glu Arg Leu Ser Met Tyr Leu
 405 410 415
 Met Lys Ala Asp Leu Met Pro Phe Leu Tyr Trp Asn Met Met Leu Arg
 420 425 430
 Gly Tyr Trp Gly Gly Pro Ala Phe Leu Arg Lys Leu Phe His Leu Gly
 435 440 445
 Met Ser
 450

<210> 769
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 769
 Met Thr Thr Arg Arg Ser Pro Thr Asp Ile Leu Leu Leu Leu Ser Glu
 1 5 10 15
 Ser Ser Trp Thr Met Arg Arg Leu Lys Ala Tyr Leu Lys Val Ser Leu
 20 25 30

<400> 772

Met Thr Thr Arg Arg Ser Pro Thr Asp Ile Leu Leu Leu Leu Ser Glu
 1 5 10 15

Ser Ser Trp Thr Met Arg Arg Leu Lys Ala Tyr Leu Lys Val Ser Leu
 20 25 30

Ile Pro Lys
 35

<210> 773

<211> 48

<212> PRT

<213> Homo sapiens

<400> 773

Met Cys Pro Pro His Leu Met Leu Ile Cys Leu Met Val Met Pro Arg
 1 5 10 15

Val Gln Asp Leu Val Thr Cys Ala Val Val Asn Thr Gln Arg Leu Gly
 20 25 30

Arg Ser Val Ser Leu Val Leu Pro Ser Phe Lys Val His Gly Lys Ile
 35 40 45

<210> 774

<211> 26

<212> PRT

<213> Homo sapiens

<400> 774

Met Val Phe Phe Ser Ala Ile Leu Phe Leu Tyr Ile Leu Tyr Leu Phe
 1 5 10 15

Ala Asp Tyr Ser Ser Ile Phe Asp Phe Pro
 20 25

<210> 775

<211> 8

<212> PRT

<213> Homo sapiens

<400> 775

Met Ala Lys Phe Thr Val Leu Trp
 1 5

<210> 776

<211> 34

<212> PRT

<213> Homo sapiens

T02160-091201

<400> 776

Met Val His Leu Leu Leu Val Phe Trp Ser Gly Pro His Asn Leu Gly
 1 5 10 15

Arg Phe Gln Pro Met Lys Leu Phe Ala Ile Cys Leu Asn Gln Ser Met
 20 25 30

Leu Leu

<210> 777

<211> 33

<212> PRT

<213> Homo sapiens

<400> 777

Met Leu His Gly Val Val Ile Val Arg Leu Trp Leu Leu Leu Gly Arg
 1 5 10 15

Asn Ser Leu Lys Arg Asn Ser Leu Val Trp Arg Gly Ser Arg Ser Pro
 20 25 30

Lys

<210> 778

<211> 17

<212> PRT

<213> Homo sapiens

<400> 778

Leu Trp Val Trp Leu Arg Ser Cys Trp Lys Asn Ser Thr Cys Pro Ala
 1 5 10 15

Trp

<210> 779

<211> 93

<212> PRT

<213> Homo sapiens

<400> 779

Met Trp Ile Arg Val Gly Phe Leu Val Phe Lys Thr Pro Gly Leu Arg
 1 5 10 15

Thr Pro Ala Ala Gly Glu Arg Ile Tyr Asn Ile Ser Gly Asn Gly Ser
 20 25 30

Pro Leu Ala Asp Ser Lys Glu Ile Phe Leu Thr Val Pro Val Gly Gly
 35 40 45

Gly Glu Ser Leu Arg Leu Leu Ala Ser Asp Leu Gln Arg His Ser Ile
 50 55 60

FOI b7 - 2005560

Ala Gln Leu Asp Pro Glu Ala Leu Gly Asn Ile Lys Lys Leu Ser Asn
 65 70 75 80

Arg Leu Ala Gln Ile Cys Ser Ser Ile Arg Thr His Lys
 85 90

<210> 780

<211> 31

<212> PRT

<213> Homo sapiens

<400> 780

Met Tyr Asn Leu Ser Ser Leu Phe Met Ile Ser Phe Leu Val Cys His
 1 5 10 15

Val Thr Pro Ser Gln Thr Leu Lys Gly Pro Pro Leu Ser Trp Ser
 20 25 30

<210> 781

<211> 6

<212> PRT

<213> Homo sapiens

<400> 781

Met Phe Leu Arg Glu Gln
 1 5

<210> 782

<211> 32

<212> PRT

<213> Homo sapiens

<400> 782

Thr Ser Cys Cys Ile Ile Ile Phe Leu Cys Ala Glu Gln Leu Lys Thr
 1 5 10 15

Gln Pro Gln Tyr Ala Asn Cys Phe Asn Ala Ile Leu Arg Gln Leu Ile
 20 25 30

<210> 783

<211> 30

<212> PRT

<213> Homo sapiens

<400> 783

Met Lys Thr Trp Leu Pro Lys Arg Ser Leu Leu Leu Cys Thr Pro Thr
 1 5 10 15

Thr Cys Arg Pro Ala Ala Ser Pro Thr Leu Thr Cys Arg Ser

0055008-091201

20

```
<210> 784
<211> 10
<212> PRT
<213> Homo sapiens
```

T02T50-28005660

Asp His Pro Met Gln Cys Ile Leu Thr Arg Val Asp Phe Asp Leu Tyr
 50 55 60
 Tyr Gly Gly Glu Ala Phe Ser Val Glu Gln Pro Gln Ser Phe Thr Cys
 65 70 75 80
 Pro Tyr Cys Gly Lys Met Gly Tyr Thr Glu Thr Ser Leu Gln Glu His
 85 90 95
 Val Thr Ser Glu His Ala Glu Thr Ser Thr Glu Val Ile Cys Pro Ile
 100 105 110
 Cys Ala Ala Leu Pro Gly Gly Asp Pro Asn His Val Thr Asp Asp Phe
 115 120 125
 Ala Ala His Leu Thr Leu Glu His Arg Ala Pro Arg Asp Leu Asp Glu
 130 135 140
 Ser Ser Gly Val Arg His Val Arg Arg Met Phe His Pro Gly Arg Gly
 145 150 155 160
 Leu Gly Gly Pro Arg Ala Arg Arg Ser Asn Met His Phe Thr Ser Ser
 165 170 175
 Ser Thr Gly Gly Leu Ser Ser Ser Gln Ser Ser Tyr Ser Pro Ser Asn
 180 185 190
 Arg Glu Ala Met Asp Pro Ile Ala Glu Leu Leu Ser Gln Leu Ser Gly
 195 200 205
 Val Arg Arg Ser Ala Gly Gly Gln Leu Asn Ser Ser Gly Pro Ser Ala
 210 215 220
 Ser Gln Leu Gln Gln Leu Gln Met Gln Leu Gln Leu Glu Arg Gln His
 225 230 235 240
 Ala Gln Ala Ala Arg Gln Gln Leu Glu Thr Ala Arg Asn Ala Thr Arg
 245 250 255
 Arg Thr Asn Thr Ser Ser Val Thr Thr Thr Ile Thr Gln Ser Thr Ala
 260 265 270
 Thr Thr Asn Ile Ala Asn Thr Glu Ser Ser Gln Gln Thr Leu Gln Asn
 275 280 285
 Ser Gln Phe Leu Leu Thr Arg Leu Asn Asp Pro Lys Met Ser Glu Thr
 290 295 300
 Glu Arg Gln Ser Met Glu Ser Glu Arg Ala Asp Arg Ser Leu Phe Val
 305 310 315 320
 Gln Glu Leu Leu Leu Ser Thr Leu Val Arg Glu Glu Ser Ser Ser Ser
 325 330 335
 Asp Glu Asp Asp Arg Gly Glu Met Ala Asp Phe Gly Ala Met Gly Cys
 340 345 350
 Val Asp Ile Met Pro Leu Asp Val Ala Leu Glu Asn Leu Asn Leu Lys
 355 360 365
 Glu Ser Asn Lys Gly Asn Glu Pro Pro Pro Pro Pro Leu

370

375

380

<210> 788
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 788

Met Leu Leu Gln Trp Ser Arg Gln Val Ile Val Leu Ala Trp Met Gly
 1 5 10 15
 Val Ser Ser Gly Gly Gly Glu Lys Cys Gln Gly Leu Phe Met Ser Arg
 20 25 30
 Arg Gln Asn Gln Gln Gly Leu Val Met Asp Trp Met Ser Gly Val Arg
 35 40 45
 Gly Arg Lys Glu Leu Gly Gln Leu Gln Asn Leu Gly Pro Glu Glu Gln
 50 55 60
 Val Trp Gly Arg Glu Asn Lys Asn Phe Leu Ser Gly Ala Pro Ser Ser
 65 70 75 80
 Cys Ala Phe Ala Ile Leu Gln Ser Thr Pro Cys Thr Pro
 85 90

<210> 789
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 789

Met Ser Pro Ser Pro Arg Trp Gly Phe Leu Cys Val Leu Phe Thr Ala
 1 5 10 15
 Val His Pro Ala Pro Ser Thr Ala Pro Val Gln Asp Lys Cys Pro Val
 20 25 30
 Asn Thr Trp Glu Ala Met Gln Ala Ser Ser Gln Gln Leu Leu Gln Thr
 35 40 45
 Asp Pro Arg Pro Lys Pro Phe Leu Leu Pro Pro Leu Pro Pro Leu Leu
 50 55 60
 Leu Ile Ser Ala Gly Thr Glu Val Ser Ser Leu Val Phe Gln Lys Ser
 65 70 75 80
 Pro Leu His Thr Gln Pro Glu Gly Ala Ile Lys Thr Ala Gly Gln Pro
 85 90 95
 Thr Ser Val His Ser Lys Val Leu Ser Lys Gly Ser Leu Leu Leu Gly
 100 105 110
 Glu

09950082-0912201

<210> 790
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 790
 His Lys Lys Ser Phe Gln Gly Arg Ala Leu Gly Asp Pro Leu Phe Lys
 1 5 10 15
 Gly Ile Trp Ala Gly Phe Ile Val Val Ser Ser Glu Glu Ser Gly Lys
 20 25 30
 Gly Arg Pro
 35

<210> 791
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 791
 Met Ile Gly Lys Lys Lys Gly Thr Leu Glu Glu Ile Val Leu Met Ile
 1 5 10 15
 Val Val Leu Val Ser Thr Gln Cys Leu Ile Met Thr Met Glu Val Val
 20 25 30
 Leu Lys Asn Leu Val Ile Met Thr Glu Trp Ile Met Lys Met Thr Asp
 35 40 45

<210> 792
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 792
 Met Ala Met Gly Ala Ala Ser Ser Gly Trp Ser Ala Pro Ala Ser Ser
 1 5 10 15
 Ser Trp Ser Thr Leu Trp Trp Ser Ser Phe Pro Arg Pro Arg
 20 25 30

<210> 793
 <211> 227
 <212> PRT
 <213> Homo sapiens

<400> 793
 Met Lys Pro Ser Leu Leu Cys Arg Pro Leu Ser Cys Phe Leu Met Leu
 1 5 10 15

Leu Pro Trp Pro Leu Ala Thr Leu Thr Ser Thr Thr Leu Trp Gln Cys
20 25 30

Pro Pro Gly Glu Glu Pro Asp Leu Asp Pro Gly Gln Gly Thr Leu Cys
35 40 45

Arg Pro Cys Pro Pro Gly Thr Phe Ser Ala Ala Trp Gly Ser Ser Pro
50 55 60

Cys Gln Pro His Ala Arg Cys Ser Leu Trp Arg Arg Leu Glu Ala Gln
65 70 75 80

Val Gly Met Ala Thr Arg Asp Thr Leu Cys Gly Asp Cys Trp Pro Gly
85 90 95

Trp Phe Gly Pro Trp Gly Val Pro Arg Val Pro Cys Gln Pro Cys Ser
100 105 110

Trp Ala Pro Leu Gly Thr His Gly Cys Asp Glu Trp Gly Arg Arg Ala
115 120 125

Arg Arg Gly Val Glu Trp Gln Gln Gly Pro Ala Ala Val Val Arg His
130 135 140

Gly Ser Leu Gly Thr Ala Pro Gly Gln Val Ala Lys Asn Ser Arg Pro
145 150 155 160

Val Arg Gly His Arg His Arg Pro Cys Leu Leu Pro His Gly Ala Val
165 170 175

Gly His Pro Gly Val Gln Pro Pro Gln Ala Glu Gly Leu Pro Leu His
180 185 190

Gly Ala Gln Arg Val Gly Pro Gly Pro Gly Val Glu Ala Val Glu Ser
195 200 205

Thr Leu Pro Thr Gly Leu Arg Met Pro Met Arg Thr Pro Leu Gly Ser
210 215 220

Trp Cys Ala
225

<210> 794
<211> 40
<212> PRT
<213> Homo sapiens

<400> 794
Met Asn Ile Tyr Thr Ile Leu Lys Ile Leu Pro His Arg Met Leu Trp
1 5 10 15

Pro Phe Ile Tyr Leu Ile Ile Ala Thr Tyr Leu Phe Phe Ile Ser Ser
20 25 30

Ser Thr His Ser Lys Gly Tyr Ser
35 40

```

<400> 795
Met Leu Ile Ser Val Met Leu His Ser Leu Trp Leu Val Ile His Leu
  1             5             10             15
Gly Pro Gln His Thr Val Ile Leu Phe
          20          25

```

<400>	796															
Met	Asp	Ala	Arg	Arg	Val	Pro	Gln	Lys	Asp	Leu	Arg	Val	Lys	Lys	Asn	
1				5					10					15		
Leu	Lys	Lys	Phe	Arg	Tyr	Val	Lys	Leu	Ile	Ser	Met	Glu	Thr	Ser	Ser	
			20					25					30			
Ser	Ser	Asp	Asp	Ser	Cys	Asp	Ser	Phe	Ala	Ser	Asp	Asn	Phe	Ala	Asn	
		35					40					45				
Thr	Arg	Leu	Gln	Ser	Val	Arg	Glu	Gly	Cys	Arg	Thr	Arg	Ser	Gln	Cys	
	50					55					60					
Arg	His	Ser	Gly	Pro	Leu	Arg	Val	Ala	Met	Lys	Phe	Pro	Ala	Arg	Ser	
65					70					75					80	
Thr	Arg	Gly	Ala	Thr	Asn	Lys	Lys	Ala	Glu	Ser	Arg	Gln	Pro	Ser	Glu	
				85					90					95		
Asn	Ser	Val	Thr	Asp	Ser	Asn	Ser	Asp	Ser	Glu	Asp	Glu	Ser	Gly	Met	
		100						105					110			
Asn	Phe	Leu	Glu	Lys	Arg	Ala	Leu	Asn	Ile	Lys	Gln	Asn	Lys	Ala	Met	
	115						120					125				
Leu	Ala	Lys	Leu	Met	Ser	Glu	Leu	Glu	Ser	Phe	Pro	Gly	Ser	Phe	Arg	
	130					135					140					
Gly	Arg	His	Pro	Leu	Pro	Gly	Ser	Asp	Ser	Gln	Ser	Arg	Arg	Pro	Arg	
145					150					155					160	
Arg	Arg	Thr	Phe	Pro	Gly	Val	Ala	Ser	Arg	Arg	Asn	Pro	Glu	Arg	Arg	
			165						170					175		
Ala	Arg	Pro	Leu	Thr	Arg	Ser	Arg	Ser	Arg	Ile	Leu	Gly	Ser	Leu	Asp	
		180						185					190			
Ala	Leu	Pro	Met	Glu	Glu	Glu	Glu	Glu	Glu	Asp	Lys	Tyr	Met	Leu	Val	
	195						200					205				
Arg	Lys	Arg	Lys	Thr	Val	Asp	Gly	Tyr	Met	Asn	Glu	Asp	Asp	Leu	Pro	
	210					215					220					

Arg Ser Arg Arg Ser Arg Ser Ser Val Thr Leu Pro His Ile Ile Arg
 225 230 235 240
 Pro Val Glu Glu Ile Thr Glu Glu Glu Leu Glu Asn Val Cys Ser Asn
 245 250 255
 Ser Arg Glu Lys Ile Tyr Asn Arg Ser Leu Gly Ser Thr Cys His Gln
 260 265 270
 Cys Arg Gln Lys Thr Ile Asp Thr Lys Thr Asn Cys Arg Asn Pro Asp
 275 280 285
 Cys Trp Gly Val Arg Gly Gln Phe Cys Gly Pro Cys Leu Arg Asn Arg
 290 295 300
 Tyr Gly Glu Glu Val Arg Asp Ala Leu Leu Asp Pro Asn Trp His Cys
 305 310 315 320
 Pro Pro Cys Arg Gly Ile Cys Asn Cys Ser Phe Cys Arg Gln Arg Asp
 325 330 335
 Gly Arg Cys Ala Thr Gly Val Leu Val Tyr Leu Ala Lys Tyr His Gly
 340 345 350
 Phe Gly Asn Val His Ala Tyr Leu Lys Ser Leu Asn Arg Asn Leu Lys
 355 360 365
 Cys Lys His Asn Ile Trp Lys Ile Cys Cys Leu Pro Ser Thr Ser Gln
 370 375 380
 Ile Phe Leu Val Lys Val Ser Asn Phe Phe Thr Glu Thr
 385 390 395

<210> 797
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 797
 Met Phe Leu Cys Cys Gln Ile Gly Pro Leu Gly Pro Phe Arg Phe Cys
 1 5 10 15
 Phe Leu Gly Ala Gly Phe Leu Pro Trp Thr Pro Ser Leu Gly Thr Val
 20 25 30
 Asp Ile Lys Cys Leu Ala
 35

<210> 798
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 798
 Met Gly Trp Ser Ser His Trp Ser Asn Phe Leu Ser Val Arg Leu Trp
 1 5 10 15

Phe Ser Thr Leu Ala Ile Cys
20

<210> 799
<211> 34
<212> PRT
<213> Homo sapiens

<400> 799
Met Phe Tyr Trp Gly Gly Leu Ser Phe Tyr Phe Leu Leu Ser Ser Gly
1 5 10 15
Val Gly Phe Tyr Cys Phe Leu Phe Gly Phe Gly Met Glu Ile Trp Ile
20 25 30

Ala Ala

<210> 800
<211> 58
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 800
Met Tyr Met Pro Ala Pro Pro Leu Ser Leu Ala Pro Ala Val Gly Glu
1 5 10 15
Thr Phe Pro Val Cys Arg Glu Arg Met Trp Ser Trp Gln Ala Trp Leu
20 25 30
Leu Pro Asp Ser Val Ser Ser Gly Asn Thr Gln Pro Ser Phe Lys Lys
35 40 45
Lys Lys Thr Arg Ser Xaa Pro Ser Asp Arg
50 55

<210> 801
<211> 33
<212> PRT
<213> Homo sapiens

<400> 801
Met Cys Val Cys Met His Val Cys Val Cys Cys Val Trp Trp Glu Ala
1 5 10 15
Ala Trp Gly Cys Gln Lys Arg Ala Glu Gly Gly Ile Arg Pro Ser Trp
20 25 30

Thr

09950082-091201

<210> 802
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 802
 Met Leu Ile Ile Thr Pro Lys Leu Lys Lys Val Gly Ser Gln Pro Gln
 1 5 10 15
 Met Glu Asp Trp Ala Pro Leu Leu Pro Ser Ser Ala Ser Leu Leu Pro
 20 25 30

<210> 803
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 803
 Glu Leu Arg Cys Leu Val Cys Phe Phe Ala Phe Gln Arg His Phe Leu
 1 5 10 15
 Ala Glu Arg Tyr Asn Gly Ala Leu Gln Glu Thr Leu Cys Pro Gln His
 20 25 30
 Leu Phe Cys Ser Leu Ala Asp Arg Ser Trp Pro
 35 40

<210> 804
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 804
 Met Glu Asn Cys Leu Tyr Val Val Ala Leu Met Val Leu Met Pro Ser
 1 5 10 15
 Val Val Trp Lys Cys Met Ile Gln Leu Glu Met Asn Gly Arg
 20 25 30

<210> 805
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 805
 Met Leu Arg Gly Phe Phe Val Val Leu Phe Cys Leu Ile Met Asn Gly
 1 5 10 15

0950083-091201

Cys Trp Ile Leu Ser His Ala Arg Ser Ala Ser Ile Gly Met Ile Met
 20 25 30

<210> 806
 <211> 114
 <212> PRT
 <213> Homo sapiens

<400> 806
 Asp Arg Glu Arg Asn Met Ala Thr Cys Ala Gln Leu Leu Arg Leu Val
 1 5 10 15

Leu Glu Ala Glu His Ile Ala Pro Ala Ala Trp His Trp Pro Trp Asp
 20 25 30

Met Gly Gly Arg Gly Arg Arg Val Pro Ala Tyr Val Gly Arg Trp Ala
 35 40 45

Gly Ala Gln Thr Gln Gln Ala Pro Trp Gly His Ser Ser Pro Leu His
 50 55 60

Pro Phe Ile Leu Lys His Leu Gln Arg Ala Ser Ser Ala Arg Leu Ser
 65 70 75 80

Gly Ala Lys Gly Thr Glu Met Arg Thr Asp Ser Pro Leu Gly Glu Thr
 85 90 95

Val Phe Ala Trp Ser Cys Pro Gln Cys Lys Ala Gln Glu Trp Cys Arg
 100 105 110

Gly Ala

<210> 807
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 807
 Glu Val Ile Gly Leu Leu Leu Leu Leu Leu Leu Cys Asn Asn Asn
 1 5 10 15

Arg Gln Lys Gln Arg Arg Gly Glu Ser Ala Asp Ala Trp Pro Leu Pro
 20 25 30

Trp Gly Phe Pro Ser Ala Glu Glu Ser Val Ala Ala Gln Leu
 35 40 45

<210> 808
 <211> 59
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 808

Cys Pro Ser Val Ser Ala Cys Cys Leu Gly Leu Pro Ile Trp Ile Val
 1 5 10 15

Gly Lys Ser Lys Arg Ala Trp Cys Leu Pro Thr Pro Pro Asp Ser Ser
 20 25 30

Arg Xaa Lys Pro Arg Pro His Glu Ala Cys Pro Thr Arg Ser Pro Met
 35 40 45

Ala Gln Thr Ala Pro Pro Pro Ser His Lys Val
 50 55

<210> 809

<211> 243

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 809

Met Leu Val Ile Gln Ile Thr Ser Val Asp Phe His Gly Ile Pro Leu
 1 5 10 15

Ser Val Pro Gln Ser Leu Thr Arg Arg Gln Cys Thr Cys Arg Gly Trp
 20 25 30

Lys Glu Asp Glu Pro Met Ser Arg Leu Cys Ile Asn Gln Gly Glu Arg
 35 40 45

Lys Ser Arg Trp Lys Glu Val Gly Arg Trp Arg Lys Gln Gln Leu Leu
 50 55 60

Leu Ala Leu Asp Asp Gly Pro Glu Gly Leu Ser Leu Leu Val Thr Pro
 65 70 75 80

Leu Trp Val Leu Phe Pro Tyr Leu Ser Val Thr Arg Phe Leu Ile Leu
 85 90 95

Ile Pro Cys Cys Glu Phe Gly Ser Leu Cys Trp Ala Ile Gln Ser Ser
 100 105 110

Ser Glu Arg Ala Lys Leu Val Leu Glu Leu Arg Cys Arg Trp Gly Lys
 115 120 125

Arg Gly Thr Gln Leu Asp Thr Lys Lys Gly Ser Leu Pro Ser Leu Ser
 130 135 140

Pro Xaa Thr Val Arg Gly Ile Leu Ser Arg Gln Pro Pro Asn Ser Pro
 145 150 155 160

00550032-091201

Ser His Leu Pro Ser Phe Val Glu Thr Ala Phe Asp Ser Pro Ser Leu
 165 170 175

Ser Leu Pro Phe Arg Val Ser Cys Leu Val Ser Gly Leu Arg Glu Phe
 180 185 190

Leu Ser Leu Leu Pro Arg Thr Leu Lys Glu Leu Leu Leu Lys Thr Gly
 195 200 205

Glu Tyr Gln Ala Tyr Leu Tyr Met Cys Asn Ser Ala Arg Ile Gln Arg
 210 215 220

Lys Ser Ser Phe Gln Pro Leu Pro Leu Gly Arg Trp Phe Arg Val Pro
 225 230 235 240

His Arg Asp

<210> 810
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 810
 Leu Leu Leu Leu Leu Phe Met Leu Ser Leu Gly Lys Pro Leu Gly Arg
 1 5 10 15

Thr

<210> 811
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 811
 Pro Ala Arg Leu Leu Pro Pro Gly Pro Ala Val Ala Leu Leu Leu Leu
 1 5 10 15

Arg Gly Ser Cys Ser Leu Cys Cys Cys His Gln Pro His Lys Ala Ser
 20 25 30

Cys Lys Ala Met Pro Ser Ala Gly Ser Asn Val Pro
 35 40

<210> 812
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 812
 Gly Ser Leu Leu Ser Gln Ile Leu His Met Ala Cys Asp His Pro Arg
 1 5 10 15

Gly Leu Thr Val Gly Ala
20

<210> 813
<211> 32
<212> PRT
<213> Homo sapiens

<400> 813
Met Ala Pro Ala Pro Cys Ser Ala Ser Pro Arg Pro Ala Gly Gly Arg
1 5 10 15

Asp Gly Gly Gly Ala Pro Glu Leu Ser Phe Leu Leu Ser Val Leu Val
20 25 30

<210> 814
<211> 68
<212> PRT
<213> Homo sapiens

<400> 814
Met Leu Leu Leu Phe Leu Leu Asn Leu Leu Pro Val Pro Gln Ala Leu
1 5 10 15

Pro Ala Leu Ser Trp Pro Trp Val Phe Val Ile Ala Ile Pro Leu Leu
20 25 30

Gly Ser Thr Val Leu Pro Asp Leu Cys Lys Ala Gly Ser Leu Phe Ser
35 40 45

Phe Ser Phe Ala Leu Met Pro Leu Pro Gln Ser Cys His Cys Ala Thr
50 55 60

Pro Val Lys Ala
65

<210> 815
<211> 9
<212> PRT
<213> Homo sapiens

<400> 815
Val Phe Tyr Cys Tyr Gly Leu Ile Ile
1 5

<210> 816
<211> 8
<212> PRT
<213> Homo sapiens

0950083-091201

<400> 816

His Arg Ala Val Ile Leu Ala Leu
1 5

<210> 817

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 817

Met Ala Leu Ser Asn Ser Val Ala Pro Lys Pro Ser Pro Pro Trp Pro
1 5 10 15Leu Leu Gly Cys Phe Leu His Ser Pro Ser His Phe Leu Val Cys Cys
20 25 30Ile Leu His Thr Phe Ile Met Phe Thr Val Ala Leu Leu Cys Ser Asp
35 40 45Gly His Pro Xaa Arg Pro Gly Val Leu Pro Gly Pro Leu Leu Tyr Leu
50 55 60Glu Cys Arg Ile Leu Gly Ser Ser Asp
65 70

<210> 818

<211> 45

<212> PRT

<213> Homo sapiens

<400> 818

Met Ala Ala Ala Lys Ala Leu Ile Ser Leu Trp Leu Val Ser Ala Cys
1 5 10 15Gly Gln Trp Glu Thr Ser Phe Pro Ile Tyr Gly Gly Asp Met Glu Cys
20 25 30Gln Ala Val Val Phe Trp Trp Leu Glu Glu Glu Arg Lys
35 40 45

<210> 819

<211> 43

<212> PRT

<213> Homo sapiens

<400> 819

Met Ala Pro Leu Pro Thr Pro Leu Thr Ala Leu Gly Ala Ser His Leu
1 5 10 15

Pro Phe Arg Cys Leu Ser Cys Leu Asp Ala Cys Leu Phe Leu Trp Gly

T02T60"23005660

20

25

30

Tyr Leu Asn Ser Ala His Pro Ile Gly Ala Ser
35 40

<210> 820
<211> 74
<212> PRT
<213> Homo sapiens

<400> 820
Met Leu Leu Pro Gln Ile Leu Ala Trp Leu Thr Pro Leu Cys Ser Gly
1 5 10 15
Phe Cys Gln Ala Val Thr Phe Ser Met Arg Pro Thr Trp Ala Thr Ile
20 25 30
Phe Asn Thr Ala Val Tyr Thr Ala Ser Pro Pro Thr Thr Gln His Ser
35 40 45
Gln Ala Leu Thr Leu Leu Pro Leu Phe Phe Pro Phe Arg Gln Pro Ser
50 55 60
Ser Asn Thr Trp Asp His Ile Leu Ile Tyr
65 70

<210> 821
<211> 34
<212> PRT
<213> Homo sapiens

<400> 821
Met Gln Cys Pro Tyr Leu Leu Gly Ala Gln Leu Leu Val Ser Ser Ile
1 5 10 15
Cys Pro Val Val Pro Ala Leu Pro Arg Pro Val Asn Lys Cys Leu Val
20 25 30
Pro Asp

<210> 822
<211> 25
<212> PRT
<213> Homo sapiens

<400> 822
Met Ser Met Leu Phe Leu Phe Cys Val His Val Ser Leu Leu Ile Phe
1 5 10 15
Leu Ile Cys Ser Pro Met Leu Tyr Leu
20 25

00500801-091660

30

Glu Leu Leu Ile Leu Asn Phe Cys Lys Cys Phe Leu Leu Gln Ser Met
 1 5 10 15
 Val Phe Ala Lys Thr Cys Gly Ser Trp Arg Ser Gln Ala Cys Leu Val
 20 25 30
 Gly Thr Ser Met Arg Ser Val Leu Asn Pro Arg Val Lys Ser Gly Arg
 35 40 45
 Phe Val Lys Ile Leu Pro Asp Tyr Glu His Met Ala Tyr Arg Asp Val
 50 55 60
 Tyr Thr Cys Leu Leu His Arg Tyr Arg His Ile Leu Gly Leu Trp Gln
 65 70 75 80
 Pro Asp Ile Gly Pro Tyr Gly Gly Leu Leu Asn Val Val Val Asp Gly
 85 90 95
 Leu Phe Ile Ile Val Met Arg Arg Ala Pro Pro Ile Cys Thr Val His
 100 105 110
 Ser Thr Ser Ile Ala Phe Leu Phe Tyr Phe Phe
 115 120

<210> 831
 <211> 124
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (102)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 831
 Glu Leu Leu Ile Leu Asn Phe Cys Lys Cys Phe Leu Leu Gln Ser Met
 1 5 10 15
 Val Phe Ala Lys Thr Cys Gly Ser Trp Arg Ser Gln Ala Cys Leu Val
 20 25 30
 Gly Thr Ser Met Arg Ser Val Leu Asn Pro Arg Val Lys Ser Gly Arg
 35 40 45
 Phe Val Lys Ile Leu Pro Asp Tyr Glu His Met Ala Tyr Arg Asp Val
 50 55 60
 Tyr Thr Cys Leu Leu His Arg Tyr Arg His Ile Leu Gly Leu Trp Gln
 65 70 75 80
 Pro Asp Ile Gly Pro Tyr Gly Gly Leu Leu Asn Val Val Val Asp Gly
 85 90 95
 Leu Phe Ile Ile Gly Xaa Met Arg Arg Ala Pro Pro Ile Cys Thr Val
 100 105 110
 His Ser Thr Ser Ile Ala Phe Leu Phe Tyr Phe Phe
 115 120

<210> 832
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 832
 Met Val Trp Leu Pro Arg Pro Ser Leu Gly Trp Val Trp Gly Trp Ser
 1 5 10 15
 Gly Leu Ala His Ala Ser His Leu Cys Leu His Leu Cys Cys His Pro
 20 25 30
 Ala Pro Pro Ser Ser Ser Ser Pro Thr Ser Ser Ser Leu Cys Ala Ser
 35 40 45
 Val Ser Cys Arg Lys Lys Trp Val Glu Pro Glu Arg Arg Leu Ser Glu
 50 55 60
 Glu Gly Arg Gly Arg Ala Trp Gly Gly Ser Pro Thr Pro His Pro Lys
 65 70 75 80
 Pro Gln Gly Leu Pro Pro Gly Ser Gly Arg Gly Arg Ser Trp Leu Cys
 85 90 95
 Gly Val Val Ala Pro Leu Leu Leu Pro Cys Phe Ser His Leu Ser Cys
 100 105 110
 Pro Ser Leu Val Pro Thr Ala Val His His Glu
 115 120

<210> 833
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 833
 Met Ser Gly Asn Ile Ile Glu Lys Thr Leu Phe Pro Val Phe Trp Val
 1 5 10 15
 Ser Met Asn Phe Trp Gly Ile Leu Thr Tyr Tyr Ile Leu Thr Arg Leu
 20 25 30
 Ile Tyr Ala Lys Tyr Pro Thr Gly Arg Gln Leu
 35 40

<210> 834
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 834
 Ser Phe Tyr Val Leu Phe Ser Asn Leu Gln Trp Tyr Val Phe Asn Ile
 1 5 10 15
 Phe Ala Thr Tyr Thr Leu Gly Lys Lys Lys Met

095005660
 102160-28005660

25

Leu

Thr Trp Trp Pro His Trp Thr Arg Gly Leu Pro Val Thr Ser Pro Leu
20 25 30

09950085 091201

Pro Ala Ile Thr Thr Pro Ser Ser Ser His Leu Gly Arg Leu Pro Leu
 35 40 45

Trp Gly Pro Arg Ile Arg Leu Cys Leu Val Pro Cys Cys Trp Ser Trp
 50 55 60

Pro Arg Pro Ser Thr Gly Ser
 65 70

<210> 839

<211> 39

<212> PRT

<213> Homo sapiens

<400> 839

Met Ala Ala Lys Ser Ala Thr Tyr Trp Gly Trp His Trp Val Asp Trp
 1 5 10 15

Arg Trp Trp Cys Thr Ala Cys Gly Val Leu Arg Phe Trp Ser Gly Cys
 20 25 30

Arg Glu Gly Ser Gln Leu Cys
 35

<210> 840

<211> 51

<212> PRT

<213> Homo sapiens

<400> 840

Met Cys Trp Tyr Val Ile Ser Arg Pro Leu Trp Leu Asn Arg Leu Cys
 1 5 10 15

Met Ser Ser Arg Leu Phe Val Leu Pro Gln Pro Ser Val Leu Ile Thr
 20 25 30

Leu Arg Pro Ala Ala Ser Val Gly Phe Leu Pro Val Gly Glu His Ile
 35 40 45

Ser Arg Leu
 50

<210> 841

<211> 20

<212> PRT

<213> Homo sapiens

<400> 841

Met Leu Phe Val Leu Leu Ile Trp Lys Leu Tyr Met Ile Tyr Ile Lys
 1 5 10 15

Thr Phe Cys Phe
 20

09950082-091201

<210> 842
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 842
 Leu Phe Trp Ser Val Ser Glu Thr Gly Ile Ala Phe Gly Val Ser Arg
 1 5 10 15
 Val Leu Gly Met Leu Glu Gly His Leu Gln Glu Ala Trp Gly Arg Arg
 20 25 30
 Glu Ile Ser Cys Asp Ala Leu
 35

<210> 843
 <211> 198
 <212> PRT
 <213> Homo sapiens

<400> 843
 Met Phe Phe Ala Pro Thr Val Leu Gly Leu Ala Arg Leu Arg His Trp
 1 5 10 15
 Val Tyr Leu Leu Cys Phe Ser Ala Gly Asn Tyr Tyr Asn Gln Gly Glu
 20 25 30
 Thr Arg Lys Lys Glu Leu Leu Gln Ser Cys Asp Val Leu Gly Ile Pro
 35 40 45
 Leu Ser Ser Val Met Ile Ile Asp Asn Arg Asp Phe Pro Asp Asp Pro
 50 55 60
 Gly Met Gln Trp Asp Thr Glu His Val Ala Arg Val Leu Leu Gln His
 65 70 75 80
 Ile Glu Val Asn Gly Ile Asn Leu Val Val Thr Phe Asp Ala Gly Gly
 85 90 95
 Val Ser Gly His Ser Asn His Ile Ala Leu Tyr Ala Ala Val Arg Ala
 100 105 110
 Leu His Ser Glu Gly Lys Leu Pro Lys Gly Cys Ser Val Leu Thr Leu
 115 120 125
 Gln Ser Val Asn Val Leu Arg Lys Tyr Ile Ser Leu Leu Asp Leu Pro
 130 135 140
 Leu Ser Leu Leu His Thr Gln Asp Val Leu Phe Val Leu Asn Ser Lys
 145 150 155 160
 Glu Val Ala Gln Ala Lys Lys Ala Met Ser Cys His Arg Ser Gln Leu
 165 170 175
 Leu Trp Phe Arg Arg Leu Tyr Ile Ile Phe Ser Arg Tyr Met Arg Ile
 180 185 190
 Asn Ser Leu Ser Phe Leu

195

<210> 844
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 844
 Met Phe Gln Asp Gln Glu Leu Ser Lys Leu Pro Ser Ala Phe Tyr Leu
 1 5 10 15
 Ser Ser Ile Gln Phe Asn Ser Asn His Ser Leu Pro
 20 25

<210> 845
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 845
 Met Ile Leu Ile Ser Val Ile Pro Ser Phe Phe Pro Val Ile Ser Ala
 1 5 10 15
 Val Gln Thr Thr Tyr Glu Gln Cys
 20

<210> 846
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 846
 Met Cys Val Phe Val Tyr Glu Leu Met Leu Leu Ser Leu Val Phe Leu
 1 5 10 15
 Pro His Trp Ser Leu Pro Ser Leu Pro Tyr Phe Ser Phe Ala Leu His
 20 25 30
 Ser Asn Thr Val Lys Pro Asp Ile Tyr Phe Leu Cys Gly Ser Asn Ser
 35 40 45
 Leu Ile Phe Pro Val Asp Lys Arg Tyr Val Phe Tyr Ser Phe Ile Ser
 50 55 60
 Leu Ile Val Asn Arg Lys Gln Leu Glu Asn Trp Asn Thr Phe Ser Leu
 65 70 75 80
 Cys Gly Cys

<210> 847
 <211> 28
 <212> PRT

<213> Homo sapiens

<400> 847

Met Pro Val Trp Lys Cys Leu Leu Trp Cys Thr Pro Leu Leu Arg Cys
1 5 10 15

Thr Gln Leu Leu Leu Gln Leu Gln Ser Arg Cys Cys
20 25

<210> 848

<211> 33

<212> PRT

<213> Homo sapiens

<400> 848

Met Cys Ser Phe His Ile Asn Phe Cys Leu Leu Ser Ser Thr Phe Ile
1 5 10 15

Leu Leu Thr Gly Leu Cys Phe Ser Val Tyr Ala Ser Asn Ile Trp Val
20 25 30

Cys

<210> 849

<211> 88

<212> PRT

<213> Homo sapiens

<400> 849

Ser Leu Lys Ile Phe Ser Val Ser Gly Val Leu Gln Gly Trp Pro Leu
1 5 10 15

Ala Pro Glu Pro Leu Pro Gln Cys Ser His Gln Pro Pro Pro His Pro
20 25 30

Ser Val Cys Arg Ala Ser Ser Thr Gly Pro His Ala Ala Phe Phe Thr
35 40 45

His Ser Ala Leu Gly Arg Phe Val Ile Trp Leu Ser Leu His Trp Ala
50 55 60

Glu Val Cys Val His Arg Val Gly Val Pro Ser Ser Pro Phe His Ser
65 70 75 80

Glu Gly His Thr Gln Arg Cys Gln
85

<210> 850

<211> 65

<212> PRT

<213> Homo sapiens

<400> 850

Met Ser Gly Ala Pro Thr Ala Gly Ala Ala Leu Met Leu Cys Ala Ala

0950082-091201

1 5 10 15
 Thr Ala Val Leu Leu Ser Ala Gln Gly Gly Pro Val Gln Ser Lys Ser
 20 25 30
 Pro Arg Phe Ala Ser Trp Asp Glu Met Asn Val Leu Ala His Gly Leu
 35 40 45
 Leu Gln Leu Gly Gln Gly Leu Arg Glu His Ala Glu Ala Pro Ala Val
 50 55 60
 Ser
 65

<210> 851
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 851
 Glu Arg Ser Ser Leu Met Ser Cys Ala Phe Phe
 1 5 10

<210> 852
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 852
 Met Glu Thr Pro Gln Leu Gln Val Gln Gly Gln Leu Leu His Leu Leu
 1 5 10 15
 Leu Cys Leu Tyr His His Lys Val Val Gln Gln Lys Leu Leu Leu Leu
 20 25 30
 Ile Leu Leu Lys Leu Leu Lys Val Thr Thr Leu Tyr Pro Met Glu Gln
 35 40 45
 Ile Leu Gly Ser Phe His Gln Leu Glu Arg Ser Phe Ile Gly Ile Ile
 50 55 60
 Leu Ser His Arg Leu Leu Arg Pro
 65 70

<210> 853
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 853
 Met Ser Gly Val Lys Leu Gln Leu Phe Gly Thr Arg Leu Ser Leu Pro
 1 5 10 15

Leu Ser Ser Tyr
 20

<210> 854
 <211> 26
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 854
 Met Ala Xaa Gly Ser Phe Leu Phe Phe Cys Leu Val His Ile Asn Val
 1 5 10 15

Ala Thr Ser Phe Leu Asp Leu Gly Leu Ser
 20 25

<210> 855
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 855
 Met Thr Cys His Ile Gln Phe Val Phe Val Pro Thr Val Arg Gly Leu
 1 5 10 15

Asn Phe Ile Ile Leu Ala Phe Cys Ser
 20 25

<210> 856
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 856
 Met Asn Ser Tyr Met Cys Ala Cys Val Phe Ser Ser Glu Ile His Leu
 1 5 10 15

Gly Gly Gly Phe Phe Cys Phe Phe Asn Ser Val Pro Asp Leu
 20 25 30

<210> 857
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 857
 Met Arg Leu Thr Asp Ser Leu Phe Leu Trp Val Gly Ala Thr Pro His
 1 5 10 15

Leu Arg Asn Leu Ala Val Ala Met Cys Ser Arg Tyr Asp Ser Ile Pro
 20 25 30

FOIA b 7 - 2800560

Val Ser Thr Ser Leu Leu Gly Asp Thr Ser Asp Thr Thr Ser Thr Gly
 35 40 45
 Leu Ala Gln Arg Leu Ala Arg Lys Thr Asn Lys Gln Val Phe Val Ser
 50 55 60
 Tyr Asn Leu Gln Asn Thr Asp Ser Asn Phe Ala Leu Leu Val Glu Asn
 65 70 75 80
 Arg Ile Lys Glu Glu Met Glu Ala Phe Pro Glu Lys Phe
 85 90

<210> 858
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 858
 Met Cys Cys Trp Ile Arg Phe Ala Ser Ile Leu Leu Arg Ile Phe Thr
 1 5 10 15
 Pro Met Phe Ile Arg Asp Ile Gly Leu Lys Phe Cys Phe Phe Val Val
 20 25 30
 Ser Leu Pro Ser Phe Val Ile Arg Met Met Leu Ala Ser
 35 40 45

<210> 859
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 859
 Met Ser Leu Leu Leu Glu Ser Cys Val Glu Pro Leu Ser Phe Leu Leu
 1 5 10 15
 Leu Leu Gln

<210> 860
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 860
 Met Cys Ala Leu Gly Lys Leu Cys Leu Ile Leu Gln Ser Trp His Pro
 1 5 10 15
 Leu

<210> 861

<211> 37
 <212> PRT
 <213> Homo sapiens

<400> 861
 Leu Ile Ser Leu Ala Phe Leu Leu Pro Gly Ile Leu Gly Lys Thr Asn
 1 5 10 15
 Gly Phe Ser Arg His Pro Leu Ser Thr Asn Ala Phe Leu Lys Gln Thr
 20 25 30
 Gly Thr Phe Leu Leu
 35

<210> 862
 <211> 69
 <212> PRT
 <213> Homo sapiens
 <400> 862
 Met Lys Leu Leu Leu Cys Phe Trp Val Asn Arg Cys Ala Cys Gln Leu
 1 5 10 15
 Ala Cys Val Leu Ser Lys Phe His Lys Leu Lys Val Phe Lys Gly Cys
 20 25 30
 Val Val Ser Glu Leu Tyr Val Ser Phe Leu Ser Leu Tyr Leu Gln Arg
 35 40 45
 Val Arg Asn Glu Ile Tyr Thr Ser Lys Val Ser Leu Ile Asn Met Ala
 50 55 60
 Phe Cys Phe Ser Met
 65

<210> 863
 <211> 69
 <212> PRT
 <213> Homo sapiens
 <400> 863
 Met Lys Leu Leu Leu Cys Phe Trp Val Asn Arg Cys Ala Cys Gln Leu
 1 5 10 15
 Ala Cys Val Leu Ser Lys Phe His Lys Leu Lys Val Phe Lys Gly Cys
 20 25 30
 Val Val Ser Glu Leu Tyr Val Ser Phe Leu Ser Leu Tyr Leu Gln Arg
 35 40 45
 Val Arg Asn Glu Ile Tyr Thr Ser Lys Val Ser Leu Ile Asn Met Ala
 50 55 60
 Phe Cys Phe Ser Met
 65

<210> 864
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 864
 Ser Val Trp Gly Ser Phe Leu Ser Met Leu Met Leu Leu Leu Ser Val
 1 5 10 15

Cys

<210> 865
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 865
 Met Ala Ile Ser Tyr Val Ser Ser Trp Ile Ile Leu Leu Asp Tyr Leu
 1 5 10 15

Gly Ser Lys Asp Gly Phe Gln Leu Phe Pro Glu Ser
 20 25

<210> 866
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 866
 Gln Arg Pro Trp Ile Leu Thr Thr Asp Leu Ser Val Phe Phe Leu Cys
 1 5 10 15

Leu Phe Pro

<210> 867
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 867
 Met Pro Cys Gly His Leu Arg Ile Arg Ala Gly Ile Ala Gly Gly Ser
 1 5 10 15

Gly Ala Ala Gln Ser Leu Leu Phe Pro Tyr Leu Glu Ser Leu Trp Glu
 20 25 30

Cys Asp Phe Asp Arg Ala
 35

<210> 868

<211> 47
 <212> PRT
 <213> Homo sapiens

<400> 868
 Met Asn Val Leu Cys Gly Tyr Gly Leu Pro Ile Gly Arg Trp Phe Trp
 1 5 10 15
 Gly Leu Arg Ile Ile Leu Lys Leu Ser Leu Thr Asp Ser Pro Val Phe
 20 25 30
 Tyr Lys Leu Thr Thr Asn Leu Ser Lys Asp His Leu Gly Arg His
 35 40 45

<210> 869
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 869
 His Ser Cys Gly Pro Asp Thr Cys Val Cys Pro Ser Pro Val Ser Pro
 1 5 10 15
 Cys Leu Pro Val Pro Leu Ala Ala Leu Met Val Thr Pro Lys Gly Ser
 20 25 30
 Asn Pro Cys
 35

<210> 870
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 870
 Phe Leu Ile Ser Leu Cys Ile Leu Ile Pro Phe Leu Ile Leu Ser Pro
 1 5 10 15

<210> 871
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 871
 Phe Leu Ile Ser Leu Cys Ile Leu Ile Pro Phe Leu Ile Leu Ser Pro
 1 5 10 15

<210> 872
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 872
 Met Trp Pro Leu Ile Gly Tyr Leu Thr Lys Ser Leu Leu Asn Phe Ile
 1 5 10 15
 Leu Cys Val Ile Ile Ala Met Cys Leu Cys Val Leu Ser Ser Ser Asp
 20 25 30
 Thr Tyr

<210> 873
 <211> 35
 <212> PRT
 <213> Homo sapiens
 <400> 873
 Met Thr Ser Leu Leu Gln Asn Cys Val Ile Phe Val Lys Val Val Gln
 1 5 10 15
 Tyr Met Thr Phe Asn Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe
 20 25 30
 Phe Phe Trp
 35

<210> 874
 <211> 134
 <212> PRT
 <213> Homo sapiens
 <400> 874
 Met Leu Lys Leu Ile Leu Leu Leu Leu Phe Ser Gly Ala Thr Leu Ser
 1 5 10 15
 Ser Thr Trp Phe Thr Leu Asn Cys Leu Asn Ser Ile Thr His Leu Pro
 20 25 30
 Leu Thr Thr Val Thr Leu Tyr Ala Ser Cys Ile Leu Leu Gly Val Phe
 35 40 45
 Leu Asn Ser Ser Val Pro Ile Phe Phe Glu Leu Phe Val Glu Thr Val
 50 55 60
 Tyr Pro Val Pro Glu Gly Ile Thr Cys Gly Val Val Thr Phe Leu Ser
 65 70 75 80
 Asn Met Phe Met Gly Val Leu Leu Phe Phe Leu Thr Phe Tyr His Thr
 85 90 95
 Glu Leu Ser Trp Phe Asn Trp Cys Leu Pro Gly Ser Cys Leu Leu Ser
 100 105 110

Figure 6

Figure 6 displays eight histograms showing the distribution of the number of nodes per cluster for different values of α . The x-axis for all plots is labeled "Nodes per Cluster" and ranges from 0 to 10. The y-axis is labeled "Frequency" and ranges from 0 to 10. The plots are arranged in two rows of four:

- Top row ($\alpha = 0.9$):
 - (a) $\alpha = 0.9$: Distribution centered around 1 node.
 - (b) $\alpha = 0.8$: Distribution centered around 1 node.
 - (c) $\alpha = 0.7$: Distribution centered around 1 node.
 - (d) $\alpha = 0.6$: Distribution centered around 1 node.
- Bottom row ($\alpha = 0.5$):
 - (e) $\alpha = 0.5$: Distribution centered around 1 node.
 - (f) $\alpha = 0.4$: Distribution centered around 1 node.
 - (g) $\alpha = 0.3$: Distribution centered around 1 node.
 - (h) $\alpha = 0.2$: Distribution centered around 1 node.

The distributions show that as α decreases, the frequency of clusters with more than one node increases slightly, while the peak at 1 node remains dominant.

65

70

75

80

<210> 878
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 878
 Met Lys Leu Phe Cys Val Leu Ile Val Val Val Val Thr
 1 5 10

<210> 879
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 879
 Met Ser Gln Ala Cys Phe Pro Ile Ser Val Lys Leu Phe Glu Thr Leu
 1 5 10 15

Leu Cys Leu Cys Phe Val Cys Ala Cys Val
 20 25

<210> 880
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 880
 Pro Gly His Leu Trp Gly Gln Ser Cys Ala Ser Leu Pro Pro Cys Ala
 1 5 10 15

Leu Ser Ser Glu Leu Pro Glu Phe Leu
 20 25

<210> 881
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 881
 Ile Cys Val Ala Asn Tyr Arg Leu Trp Cys Lys Val Cys Leu Ile Phe
 1 5 10 15

Leu Pro Leu Thr Pro Ala Asn Cys Cys Ile Leu Asp Ser Leu Phe Gln
 20 25 30

Tyr Cys Ile Lys Thr Leu Val Leu Cys Trp Thr Glu
 35 40

09500550
 T02T60-280550

<210> 882
 <211> 253
 <212> PRT
 <213> Homo sapiens

<400> 882

Met	Asn	Cys	Phe	Leu	Ser	Pro	Leu	Leu	Thr	Leu	Leu	Ala	Lys	Asn	Gly
1				5					10					15	
Ala	Phe	Phe	Ala	Gly	Ser	Ile	Leu	Ala	Val	Leu	Ile	Ala	Leu	Thr	Ile
			20					25					30		
Tyr	Asp	Glu	Asp	Val	Leu	Ala	Val	Glu	His	Val	Leu	Thr	Thr	Val	Thr
	35						40					45			
Leu	Leu	Gly	Val	Thr	Val	Thr	Val	Cys	Arg	Ser	Phe	Ile	Pro	Asp	Gln
	50					55					60				
His	Met	Val	Phe	Cys	Pro	Glu	Gln	Leu	Leu	Arg	Val	Ile	Leu	Ala	His
	65				70					75					80
Ile	His	Tyr	Met	Pro	Asp	His	Trp	Gln	Gly	Asn	Ala	His	Arg	Ser	Gln
				85					90					95	
Thr	Arg	Asp	Glu	Phe	Ala	Gln	Leu	Phe	Gln	Tyr	Lys	Ala	Val	Phe	Ile
		100						105					110		
Leu	Glu	Glu	Leu	Leu	Ser	Pro	Ile	Val	Thr	Pro	Leu	Ile	Leu	Ile	Phe
		115					120					125			
Cys	Leu	Arg	Pro	Arg	Ala	Leu	Glu	Ile	Ile	Asp	Phe	Phe	Arg	Asn	Phe
	130					135					140				
Thr	Val	Glu	Val	Val	Gly	Val	Gly	Asp	Thr	Cys	Ser	Phe	Ala	Gln	Met
145					150					155					160
Asp	Val	Arg	Gln	His	Gly	His	Pro	Gln	Arg	Leu	Ser	Ala	Gly	Gln	Thr
				165					170					175	
Glu	Ala	Ser	Val	Tyr	Gln	Gln	Ala	Glu	Asp	Gly	Lys	Thr	Glu	Leu	Ser
			180					185					190		
Leu	Met	His	Phe	Ala	Ile	Thr	Asn	Pro	Gly	Trp	Gln	Pro	Pro	Arg	Glu
	195						200					205			
Ser	Thr	Ala	Phe	Leu	Gly	Phe	Ser	Arg	Ser	Arg	Phe	Ser	Gly	Met	Glu
	210					215					220				
Gln	Leu	Leu	Ala	Ser	Pro	Lys	Gly	Val	Cys	Ser	Leu	Lys	Met	Pro	Ser
225					230					235					240
Leu	Arg	Leu	Ser	Ser	Pro	Tyr	Asn	Leu	Ser	Leu	Ser	Pro			
				245					250						

<210> 883
 <211> 65
 <212> PRT

<213> Homo sapiens

<400> 883

Met Ala Pro Ser Thr Ala Thr Arg His Trp His Ala His Cys Phe Ala
1 5 10 15

Ser Cys Arg Ser Thr Gly Met Gln Arg Leu Cys Gly Pro Gly Ile Pro
20 25 30

Lys Asn Ser Leu Pro Val Thr Ser Trp Trp Thr Trp Gly Ala Ser Thr
35 40 45

Thr Leu Gly Asp Thr Asp Met Thr Ile Thr Arg Gly Leu Ser Gln Arg
50 55 60

Pro
65

<210> 884

<211> 63

<212> PRT

<213> Homo sapiens

<400> 884

Met Gln Ile His Met Ile Pro Val Thr Tyr Glu Leu Lys Ile Arg Cys
1 5 10 15

Leu Leu Leu Phe Val Ser Phe Ser Arg Lys Met Ser Gln Gln Pro Ile
20 25 30

Arg Lys Leu Tyr Gln Ser Thr Leu Asp Tyr Lys Leu Thr Glu Thr Ile
35 40 45

Asn Asn Lys Ala Thr Gln Tyr Glu Tyr Asn Thr Pro Lys Gly Thr
50 55 60

<210> 885

<211> 31

<212> PRT

<213> Homo sapiens

<400> 885

Met Cys Cys Ser Cys Cys Gly Arg Tyr Pro Trp Val Leu Gly Lys His
1 5 10 15

Met Cys Ser Leu Leu Trp Leu Gln Ile Pro Ala Tyr Leu Lys Ser
20 25 30

<210> 886

<211> 46

<212> PRT

<213> Homo sapiens

<400> 886

Gly Ile Ile Gln Ser Val Leu Phe Cys Ala Trp Phe Val Leu Val Asn

1 5 10 15

Ile Ala Ser Gly Ser Phe Ile Ser Val Gln Gly Trp Arg Thr Pro Ala
20 25 30

Tyr Lys Pro Asn Leu Val Leu Cys Leu Phe Ser Tyr Gly Leu
35 40 45

<210> 887
<211> 9
<212> PRT
<213> Homo sapiens

<400> 887
Ala Gly Ala Gly Leu Pro Pro Gly Ser
1 5

<210> 888
<211> 72
<212> PRT
<213> Homo sapiens

<400> 888
Met Gly Tyr Asn Leu Ser Pro Gln Phe Thr Gln Leu Leu Val Ser Arg
1 5 10 15

Tyr Cys Pro Arg Ser Ala Asn Pro Ala Met Gln Leu Asp Arg Phe Ile
20 25 30

Gln Val Cys Thr Gln Leu Gln Val Leu Thr Glu Ala Phe Arg Glu Lys
35 40 45

Asp Thr Ala Val Gln Gly Asn Ile Arg Leu Ser Phe Glu Asp Phe Val
50 55 60

Thr Met Thr Ala Ser Arg Met Leu
65 70

<210> 889
<211> 10
<212> PRT
<213> Homo sapiens

<400> 889
Met Pro Leu His Ser Ser Leu Gly Gly His
1 5 10

<210> 890
<211> 10
<212> PRT
<213> Homo sapiens

<400> 890

09950082 092160 28005660

Gly Leu Val Ala Ala Val Arg Phe Ile Ser
 1 5 10

<210> 891
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 891
 Met His Leu Ala Phe His Ile Val Phe Ile Leu Gln Ala Ile Ala Cys
 1 5 10 15

Phe Ser Cys Ser Leu Pro Val Leu Ala Ala Gly Val Asp Arg Leu Leu
 20 25 30

Ser

<210> 892
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 892
 Ile Phe Leu His Leu Leu Ser Cys Ser Leu Leu Phe Ala Trp Thr Asn
 1 5 10 15

Gly Glu Lys Ser Ala Gln Asn Glu Ile Met
 20 25

<210> 893
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 893
 Met Asn Ile Leu Phe Ile Leu Cys Asn Leu Ile Trp Leu Leu Trp Gly
 1 5 10 15

Lys Gln His Val His Lys
 20

<210> 894
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 894
 Leu Glu Phe Ser Ser Val Ile Ser Glu Ser Leu Ile Tyr Leu Phe Val
 1 5 10 15

Leu Ser Phe Leu Leu Cys Cys Trp Tyr Val Ala Leu Met Glu Arg Leu
 20 25 30

His Gln Pro Ser Phe Phe Phe Leu Arg Gln Pro Gly Gln Gln Arg Glu
 35 40 45

Thr Ser Ser Gln Lys Lys Lys Lys Lys Lys Lys Lys Lys Asn Ser
 50 55 60

<210> 895
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 895
 Met Leu Cys Gln Arg Ser Val Gly Tyr Lys Tyr Leu Ala Leu Phe Leu
 1 5 10 15

Gly Cys Leu Phe Cys Ser Ile Gly Leu Cys Thr Cys Cys Tyr Thr Ser
 20 25 30

Pro Met Leu Phe Trp
 35

<210> 896
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 896
 Met Ile Ser Val Trp Phe Asp Val Leu Phe Leu Ser Ser Val Ser Ala
 1 5 10 15

Trp Val Ser Val Cys Met Lys Trp Asn Lys Leu Pro Thr Ala Lys Lys
 20 25 30

Lys Lys Lys Lys
 35

<210> 897
 <211> 36
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (31)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 897
 Met Ser Ser Leu Leu Leu Ile Ile Ile Leu Ala Leu Ser Leu Ala Tyr
 1 5 10 15

<210> 901
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 901
 Pro Ala Pro His Leu Pro Arg Leu Thr Leu Pro Cys Gln Val Val Trp
 1 5 10 15
 Gly Pro Arg Cys Trp Gly Gly Glu Ser Gly Ser
 20 25

<210> 902
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 902
 Met Cys Asp Val Leu Trp Gly Leu Phe Ile Leu Leu Val His Arg Arg
 1 5 10 15
 Gly Thr Leu Pro Gln Glu Ser Arg His Leu Ser Ser Ser Ser Ser Ser
 20 25 30
 Ser Ser Ala Thr Glu Glu Pro Pro Tyr Leu Gly Gln Val Ser His Cys
 35 40 45
 Leu Pro Val Met Phe Thr Thr His Glu Arg Thr Arg Arg Phe Asp Val
 50 55 60
 Ser Ile Lys Leu Asn Glu
 65 70

<210> 903
 <211> 41
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 903
 Met Leu Leu Gly Leu Leu Val Ile Leu Val Ile Asn Leu Trp Met Arg
 1 5 10 15
 Gln Val Leu Ile Ser Thr Glu Phe Phe Asn Arg Arg Leu Cys Tyr Arg
 20 25 30
 Ser Tyr Arg Phe Phe Pro Gly Xaa Ala
 35 40

<210> 904

<211> 4
 <212> PRT
 <213> Homo sapiens

<400> 904
 Asp Lys Leu Met
 1

<210> 905
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 905
 Gly Lys Gly Arg Leu Ser Arg Gly Lys Tyr Tyr Gln Ser Ser
 1 5 10

<210> 906
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 906
 Asp Ile Leu Arg Leu Phe Val Ala Leu Gln Gly Cys Met Ala Gly Arg
 1 5 10 15
 Ala Gly Gln Arg Pro Glu Ser Gln Arg Thr Cys Pro Pro Gly Val Glu
 20 25 30
 Ser Glu Trp Arg Ala Gly Ser Thr Gly Ser Gly Ala Val Cys His Cys
 35 40 45
 Gly Gly Gly Gln Ala Asp Lys Thr Gln Glu Gly Asp Cys Gln
 50 55 60

<210> 907
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 907
 Leu Pro Gly Ser Arg Ser Arg Cys Phe Ile Phe Pro Leu Phe Ser His
 1 5 10 15
 Tyr Ile Val Ile Ser Pro Thr Leu Ser Leu Val Leu Phe Phe Ser Trp
 20 25 30
 Lys Thr Arg Lys Pro Leu Ser Pro Lys Cys
 35 40

<210> 908
 <211> 66
 <212> PRT

<213> Homo sapiens

<400> 908

Asp Leu Leu Leu Leu Phe Cys Gly Asp Val Pro Cys Ser Leu Tyr Val
1 5 10 15

Ser Ser His Val Cys Leu Cys Thr His Ile Ala Ser Cys Ala Val Phe
20 25 30

Val Ser Leu Pro Leu Met Pro Ala Ser Gly Met Met Glu Arg Leu Trp
35 40 45

Ser Arg Leu Arg Ile Met Thr Ala Tyr Lys Thr Asp Ser Thr Leu Thr
50 55 60

Gly Lys
65

<210> 909

<211> 11

<212> PRT

<213> Homo sapiens

<400> 909

Met Cys Leu Pro Leu Met Pro Ser Trp Pro Arg
1 5 10

<210> 910

<211> 265

<212> PRT

<213> Homo sapiens

<400> 910

Met Ala Thr Leu Leu Arg Pro Val Leu Arg Arg Leu Cys Gly Leu Pro
1 5 10 15

Gly Leu Gln Arg Pro Ala Ala Glu Met Pro Leu Arg Ala Arg Ser Asp
20 25 30

Gly Ala Gly Pro Leu Tyr Ser His His Leu Pro Thr Ser Pro Leu Gln
35 40 45

Lys Ala Leu Leu Ala Ala Gly Ser Ala Ala Met Ala Leu Tyr Asn Pro
50 55 60

Tyr Arg His Asp Met Val Ala Val Leu Gly Glu Thr Thr Gly His Arg
65 70 75 80

Thr Leu Lys Val Leu Arg Asp Gln Met Arg Arg Asp Pro Glu Gly Ala
85 90 95

Gln Ile Leu Gln Glu Arg Pro Arg Ile Ser Thr Ser Thr Leu Asp Leu
100 105 110

Gly Lys Leu Gln Ser Leu Pro Glu Gly Ser Leu Gly Arg Glu Tyr Leu
115 120 125

095003-09101

Arg Phe Leu Asp Val Asn Arg Val Ser Pro Asp Thr Arg Ala Pro Thr
 130 135 140
 Arg Phe Val Asp Asp Glu Glu Leu Ala Tyr Val Ile Gln Arg Tyr Arg
 145 150 155 160
 Glu Val His Asp Met Leu His Thr Leu Leu Gly Met Pro Thr Asn Ile
 165 170 175
 Leu Gly Glu Ile Val Val Lys Trp Phe Glu Ala Val Gln Thr Gly Leu
 180 185 190
 Pro Met Cys Ile Leu Gly Ala Phe Phe Gly Pro Ile Arg Leu Gly Ala
 195 200 205
 Gln Ser Leu Gln Val Leu Val Ser Glu Leu Ile Pro Trp Ala Val Gln
 210 215 220
 Asn Gly Arg Arg Ala Pro Cys Val Leu Asn Leu Tyr Tyr Glu Arg Arg
 225 230 235 240
 Trp Glu Gln Ser Leu Arg Ala Leu Arg Glu Glu Leu Gly Ile Thr Ala
 245 250 255
 Pro Pro Met His Val Gln Gly Leu Ala
 260 265

<210> 911
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 911
 Glu Lys Gln Leu Tyr Leu Glu Ser Tyr Cys Leu Gly Phe Leu Ile Arg
 1 5 10 15
 His Ser Ser Pro Asp
 20

<210> 912
 <211> 21
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 912
 Met Ala Gly Arg Val Gly Tyr Leu Arg Tyr Cys Leu Phe Xaa Ile Ser
 1 5 10 15
 Ala Leu Leu Ile Phe
 20

<210> 913
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 913
 Met Cys Asn Leu Pro Glu Asn Leu Phe Cys Phe Trp Ser Thr Ser Gly
 1 5 10 15
 Val Ala Ser Gly Pro Arg Ala Phe Ala Thr Val Leu Pro Pro Ala Pro
 20 25 30
 Thr Ser Ser Val Cys Leu Gln Ser Leu Ile Tyr Arg Ser Pro Arg Cys
 35 40 45
 Leu Leu Tyr Ser Leu Cys Ala Trp Pro Phe Cys Tyr Leu Ala
 50 55 60

<210> 914
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 914
 Glu Leu Trp Trp Phe Trp Leu Leu Trp Thr Val Leu Ile Leu Phe Ser
 1 5 10 15
 Cys Cys Cys Ala Phe Arg His Arg Arg Ala Lys Leu Arg Leu Gln Gln
 20 25 30
 Gln Gln Arg Gln Arg Arg Asn Gln Leu Val Gly Leu Ser Trp Gly Met
 35 40 45
 Pro Trp Gly Trp Ser Phe Pro Tyr Arg Phe Thr Ala
 50 55 60

<210> 915
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 915
 Gly Arg Gly Pro Val Leu Gly Pro Met Val Tyr Ala Ile Cys Tyr Cys
 1 5 10 15
 Pro Leu Pro Arg Leu Ala Asp Leu Glu Ala Leu Lys Val Ala Asp Ser
 20 25 30
 Lys Thr Leu Leu Glu Ser Glu Arg Glu Arg Leu Phe Ala Lys Met Glu
 35 40 45
 Asp Thr Asp Phe Val Gly Trp Ala Leu Asp Val Leu Ser Pro Asn Leu
 50 55 60
 Ile Ser Thr Ser Met Leu Gly Arg Val Lys Tyr Asn Leu Asn Ser Leu
 65 70 75 80

Ser His Asp Thr Ala Thr Gly Leu Ile Gln Tyr Ala Leu Asp Gln Gly
 85 90 95

Val Asn Val Thr Gln Val Phe Val Asp Thr Val Gly Cys Gln Arg His
 100 105 110

Thr Arg Arg Gly Cys Ser Lys Val Phe Pro Gly Leu Arg
 115 120 125

<210> 916
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 916
 Met Leu Pro Asn Phe Ser Trp Leu Leu Leu Leu Cys His Thr Ala His
 1 5 10 15

Arg Ser Cys Pro Pro Pro Pro Tyr Thr Pro Arg Pro His Pro Pro Val
 20 25 30

Arg Gln Phe Lys Ser Cys
 35

<210> 917
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 917
 Met Leu Ser Gln Thr Asn Gly Ser His Val Ala Ser Thr Leu Leu Ser
 1 5 10 15

Phe Ala Val Ala Trp Leu Gly Ile Leu Gly Ser Ser Pro Ser Pro Thr
 20 25 30

Leu Ser Ala Pro Ser Gln Phe Leu Pro Gly Pro His Thr Leu Leu Gln
 35 40 45

Leu Pro Thr Leu Leu Gln Ser His Cys Arg Pro
 50 55

<210> 918
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 918
 His Ser Ser Ile Ser Arg Ser Ser Leu Ser Cys Pro Tyr Ser
 1 5 10

<210> 919

0950082-091201

<211> 33
 <212> PRT
 <213> Homo sapiens

<400> 919
 Met Phe Trp Thr Asn Leu Val Gln Tyr Val Phe Cys Leu Ser Phe Phe
 1 5 10 15
 Ile Leu Leu Leu Ser Gln Gln Val Glu Asn Leu Ala Leu Leu Gly Ser
 20 25 30

Met

<210> 920
 <211> 27
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (20)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 920
 Met Xaa Leu Val His Xaa Ile Ile Val Leu Ile Phe Leu Pro Gly Met
 1 5 10 15

Thr Xaa Lys Xaa Glu Arg Arg Lys Lys Met Cys
 20 25

<210> 921
 <211> 4
 <212> PRT
 <213> Homo sapiens

<400> 921
 Phe Val Cys Ile
 1

09950062-091201

<210> 922
 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 922
 Leu Phe Leu Leu Phe Leu Val Phe Glu Leu Pro Trp Arg Arg Ala Trp
 1 5 10 15
 Glu Thr Ser Arg Gly Gln Ala Thr Asp Leu Arg Thr Ser Pro Pro Val
 20 25 30
 Leu Gly Ala Gly Arg Pro Arg Ser Gly Val Ser Thr His Ala Arg Leu
 35 40 45
 Lys Arg Arg Arg Arg Asp Pro Leu Pro Asp Arg Ala Arg Pro Pro Pro
 50 55 60
 Pro Leu Leu Pro Gln Gly Ala Trp Thr Ala Gly Leu Thr Cys Ser Leu
 65 70 75 80
 Leu Arg Val Cys Pro Arg Thr Ser Pro Pro Ala Pro Arg Trp Trp Arg
 85 90 95
 Gly His Gly Tyr Leu Ser Leu Leu Leu Leu Ala Trp Arg Arg Ala Val
 100 105 110
 Pro Ala Leu Gly Phe Trp Asp Ser Ser Pro Pro Gly Ala Phe Cys Ser
 115 120 125
 Pro Cys Gly Leu Ser Asp Pro Ser Pro
 130 135

<210> 923
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 923
 Glu Asn Ser Phe Lys Lys Asn Met Ser Leu Gly Ser Cys Val Val Leu
 1 5 10 15
 Leu Pro Gly Cys Lys Leu Ser Pro Pro Arg Ala Ser His Tyr His Gln
 20 25 30
 Thr Ser Ser Gly Pro Gly Cys Glu Ala Leu Phe Leu Val Phe Arg Met
 35 40 45
 Asp Leu
 50

<210> 924
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 924

Met Ala Pro Leu Arg Arg Leu Thr Val Trp Arg Val Gly Leu Arg Leu
 1 5 10 15

Gly Pro Ala Gly Ala Ala Gly Gly Pro Gly Glu Ala Ser Ser Val
 20 25 30

<210> 925
 <211> 4
 <212> PRT
 <213> Homo sapiens

<400> 925
 Met Trp Asn Trp
 1

<210> 926
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 926
 Met Gly Ala Thr Ala Arg Pro Gly Pro Thr Arg Gly Arg Trp Asp Ser
 1 5 10 15

Cys Leu Arg Gln
 20

<210> 927
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 927
 Met Pro Phe Tyr Ile His Leu Trp His Gln Met Leu Leu Ile Ile Ile
 1 5 10 15

Val Met Trp Trp Ile Cys
 20

<210> 928
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 928
 Met Arg Ser Ile Trp Lys Pro Thr Arg Cys Trp Pro Leu Cys Thr Leu
 1 5 10 15

Leu Arg Ser Thr Ser Ser Gln His Trp Gln Lys Pro Val Ser Thr Phe
 20 25 30

Trp Arg Gln Val Trp Lys Pro Arg Thr Pro Ala Ser Cys Cys Pro Arg
 35 40 45

35

<210> 933
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 933
 Met Ala Leu Leu Ile Leu Leu Phe Cys Ile Leu Lys Tyr Lys Gln Leu
 1 5 10 15
 Asp Ile Ala Glu Asp Gly Ser Gly Gly Gln Gly Gln Ile Ser Gln Met
 20 25 30

<210> 934
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 934
 Met Ala Leu Leu Ile Leu Leu Phe Cys Ile Leu Lys Tyr Lys Gln Leu
 1 5 10 15
 Asp Ile Ala Glu Asp Gly Ser Gly Gly Gln Gly Gln Ile Ser Gln Met
 20 25 30

<210> 935
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 935
 Met Gly Leu Trp Trp Arg Cys
 1 5

<210> 936
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 936
 Met Gly Leu Trp Trp Arg Cys
 1 5

<210> 937

0950082 091201

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (73)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (74)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 940
 Ala Trp Leu Ser His Leu Met Glu His His Ser Ser His Gly Gly Arg
 1 5 10 15
 Lys Arg Tyr Ala Cys Gln Gly Cys Trp Lys Thr Xaa His Phe Ser Leu
 20 25 30
 Ala Leu Ala Glu His Gln Lys Thr His Glu Lys Glu Lys Ser Tyr Ala
 35 40 45
 Leu Gly Gly Ala Arg Gly Pro Gln Pro Ser Thr Arg Glu Ser Gln Ala
 50 55 60
 Gly Ala Xaa Ala Gly Gly Pro Pro Xaa Xaa Val Glu Gly Glu Ala Pro
 65 70 75 80
 Pro Ala Pro Pro Glu Ala Gln Arg
 85

<210> 941
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 941
 Met Ala Ala Met Arg His Leu Leu Arg Leu Phe Ser Gly Cys Gly Asp
 1 5 10 15
 Leu Gly Phe Leu Thr Leu Tyr Ile Phe Phe Leu Tyr Ser Lys Gln Asn
 20 25 30
 Asn Phe

<210> 942
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 942
 Met Pro Phe Leu His Thr Pro Thr Val Pro Ser Ile Phe Leu Arg Val

1 5 10 15

Ile Ile Phe Leu Phe Thr Leu
20

<210> 943
<211> 38
<212> PRT
<213> Homo sapiens

<400> 943
Met Leu Arg Leu Ala Gly Pro Pro Phe Tyr Trp Pro Val Leu Leu Ala
1 5 10 15

Leu Leu Pro Phe Ala Ser Ser Gly Phe Gln Val Ser Leu Lys Val Gly
20 25 30

Gly Cys Leu Ser Ser Leu
35

<210> 944
<211> 12
<212> PRT
<213> Homo sapiens

<400> 944
Met Thr Ser Val Gln Gln Phe Cys Ile Tyr Ser Glu
1 5 10

<210> 945
<211> 56
<212> PRT
<213> Homo sapiens

<400> 945
Met Asn Leu Trp Leu Gly Ala Leu Ile Pro Val Thr Val His Leu Lys
1 5 10 15

Arg Met Trp Ser His Pro Lys Phe Gln Ala Gln Lys Thr Phe Pro Leu
20 25 30

Ser Lys Ser Pro Lys Tyr His Pro Val Phe Leu Leu Val Ile Ile Met
35 40 45

Ala Arg Ser Ser Gln Leu Lys Arg
50 55

<210> 946
<211> 84
<212> PRT
<213> Homo sapiens

<220>

09950082-091201

<221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 946

Met Leu Val Ser Ser His Phe Leu Phe Leu Cys Phe Val Arg Leu Leu
 1 5 10 15

Ser Ser Leu Pro Leu Phe Leu Thr Ser Ile Thr Phe Leu Tyr Ser Pro
 20 25 30

Ser Ser Pro Ser Leu Phe Leu Ser Leu Tyr Ser Phe Ser Tyr Pro Ser
 35 40 45

Phe Ser Pro Leu Ser Phe Leu Pro Leu Xaa Leu Ile Ser Phe Pro Pro
 50 55 60

Pro Met Pro Ser Ser Leu Phe Pro Phe Pro Cys Phe Phe Pro Gln Pro
 65 70 75 80

Leu Phe Leu Phe

<210> 947

<211> 1

<212> PRT

<213> Homo sapiens

<400> 947

Met
 1

<210> 948

<211> 20

<212> PRT

<213> Homo sapiens

<400> 948

Met Pro Gln Ala Ser Thr His Ile Lys Ala Pro Pro Pro Pro Ser Pro
 1 5 10 15

Glu Pro Gly Asn
 20

<210> 949

<211> 129

<212> PRT

<213> Homo sapiens

<400> 949

Met Phe His Leu Gln Pro Leu Met Phe Leu Gly Leu Phe Pro Leu Phe
 1 5 10 15

Ala Val Phe Glu Gly Leu His Leu Ser Thr Ser Glu Lys Ile Phe Arg
 20 25 30

Phe Gln Asp Thr Gly Leu Leu Leu Arg Val Leu Gly Ser Leu Phe Leu
 35 40 45
 Gly Gly Ile Leu Ala Phe Gly Leu Gly Phe Ser Glu Phe Leu Leu Val
 50 55 60
 Ser Arg Thr Ser Ser Leu Thr Leu Ser Ile Ala Gly Ile Phe Lys Glu
 65 70 75 80
 Val Cys Thr Leu Leu Leu Ala Ala His Leu Leu Gly Asp Gln Ile Ser
 85 90 95
 Leu Leu Asn Trp Leu Gly Phe Ala Ser Ala Ser Arg Glu Tyr Pro Ser
 100 105 110
 Thr Leu Pro Ser Lys Pro Cys Ile Pro Glu Val Met Val Ala Pro Arg
 115 120 125

Pro

<210> 950
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 950
 Gln Lys Ala Ala Leu Arg Leu Pro Phe Pro Val Leu Leu
 1 5 10

<210> 951
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 951
 Met Ala Ser Thr Thr Leu Trp Leu Leu Trp Lys Thr Trp Leu Ser Ser
 1 5 10 15

Gly Leu Arg Cys Val Gln Arg Val Pro Ser Arg Val Phe Tyr Ser Gly
 20 25 30

Cys

<210> 952
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 952
 Met Ser Leu Leu Leu Phe Leu Phe
 1 5

<210> 953
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 953
 Met Thr Ser Gly Glu Pro Trp Ala Cys Ala Gly Cys Ser Phe Pro Ala
 1 5 10 15
 Thr Ala Ala Ala Ser Asp Phe Ala Ser Val Leu Pro Gly Val Glu Gly
 20 25 30
 Ser Val Cys Cys
 35

<210> 954
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 954
 Met Ser His Phe Arg Pro Ala Arg Cys Leu Pro Gly Pro Cys Gln Thr
 1 5 10 15
 Leu Leu Thr Phe Pro Leu Leu Val Cys Ala Gly Leu Arg Arg Pro Pro
 20 25 30
 Arg Pro His Ser Thr Gln Pro Gly Ser Ser Cys Ser Pro Arg His Pro
 35 40 45
 Ser Phe Pro Ser Leu Ser Trp Val Met Leu Leu Pro Pro Cys Val Thr
 50 55 60
 Phe Glu Ala Val Lys
 65

<210> 955
 <211> 207
 <212> PRT
 <213> Homo sapiens

<400> 955
 Met Gly Arg Lys Leu Ser Ser Pro Thr Thr Pro Arg Asp Met Leu Leu
 1 5 10 15
 Ser Pro Thr Leu Arg Pro Arg Arg Arg Cys Leu Glu Ser Ser Val Asp
 20 25 30
 Asp Ala Gly Cys Pro Asp Leu Gly Lys Glu Pro Leu Val Phe Gln Asn
 35 40 45
 Arg Gln Phe Ala His Leu Met Glu Glu Pro Leu Gly Ser Asp Pro Phe
 50 55 60
 Ser Trp Lys Leu Pro Ser Leu Asp Tyr Glu Arg Lys Thr Lys Val Asp

09050082.091201

65			70						75						80	
Phe	Asp	Asp	Phe	Leu	Pro	Ala	Ile	Arg	Lys	Pro	Gln	Thr	Pro	Thr	Ser	
				85					90					95		
Leu	Ala	Gly	Ser	Ala	Lys	Gly	Gly	Gln	Asp	Gly	Ser	Gln	Arg	Ser	Ser	
			100					105					110			
Ile	His	Phe	Glu	Thr	Glu	Glu	Ala	Asn	Arg	Ser	Phe	Leu	Ser	Gly	Ile	
		115					120					125				
Lys	Thr	Ile	Leu	Lys	Lys	Ser	Pro	Glu	Pro	Lys	Glu	Asp	Pro	Ala	His	
		130					135					140				
Leu	Ser	Asp	Ser	Ser	Ser	Ser	Ser	Gly	Ser	Ile	Val	Ser	Phe	Lys	Ser	
145					150					155					160	
Ala	Asp	Ser	Ile	Lys	Ser	Arg	Pro	Gly	Ile	Pro	Arg	Leu	Ala	Gly	Asp	
			165					170					175			
Gly	Gly	Glu	Arg	Thr	Ser	Pro	Glu	Arg	Arg	Glu	Pro	Gly	Thr	Gly	Arg	
			180					185					190			
Lys	Asp	Asp	Asp	Val	Ala	Ser	Ile	Met	Lys	Lys	Tyr	Leu	Gln	Lys		
		195					200					205				

<400> 958

Met Gly Leu Trp Val Phe Leu Glu Leu Val Phe Val His Ser Leu Leu
 1 5 10 15

Phe Val Leu Pro Ser Leu Ser Pro Cys Pro Thr His Val Leu Arg His
 20 25 30

Ser Gly Ser Thr Trp
 35

<210> 959

<211> 38

<212> PRT

<213> Homo sapiens

<400> 959

Met Leu Ser Pro Ser Gln Thr Pro Gly Ser Cys Leu Lys Trp Ala Pro
 1 5 10 15

Ser Trp Val Thr Arg Cys Thr Phe Trp Thr Leu Val Val Ala Ser Leu
 20 25 30

Ala Gln Lys Gly Pro Lys
 35

<210> 960

<211> 75

<212> PRT

<213> Homo sapiens

<400> 960

Met Asn Leu His Tyr Leu Leu Ala Val Ile Leu Ile Gly Ala Ala Gly
 1 5 10 15

Val Phe Ala Phe Ile Asp Val Cys Leu Gln Arg Asn His Phe Arg Gly
 20 25 30

Lys Lys Ala Lys Lys His Met Leu Val Pro Pro Pro Gly Lys Glu Lys
 35 40 45

Gly Pro Gln Gln Gly Lys Gly Pro Glu Pro Ala Lys Pro Pro Glu Pro
 50 55 60

Gly Lys Pro Pro Gly Pro Ala Lys Gly Lys Lys
 65 70 75

<210> 961

<211> 75

<212> PRT

<213> Homo sapiens

<400> 961

Met Asn Leu His Tyr Leu Leu Ala Val Ile Leu Ile Gly Ala Ala Gly
 1 5 10 15

FOOTNOTES 28005660

Val Phe Ala Phe Ile Asp Val Cys Leu Gln Arg Asn His Phe Arg Gly
 20 25 30
 Lys Lys Ala Lys Lys His Met Leu Val Pro Pro Pro Gly Lys Glu Lys
 35 40 45
 Gly Pro Gln Gln Gly Lys Gly Pro Glu Pro Ala Lys Pro Pro Glu Pro
 50 55 60
 Gly Lys Pro Pro Gly Pro Ala Lys Gly Lys Lys
 65 70 75

<210> 962
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 962
 Met Asn Leu His Tyr Leu Leu Ala Val Ile Leu Ile Gly Ala Ala Gly
 1 5 10 15
 Val Phe Ala Phe Ile Asp Val Cys Leu Gln Arg Asn His Phe Arg Gly
 20 25 30
 Lys Lys Ala Lys Lys His Met Leu Val Pro Pro Pro Gly Lys Glu Lys
 35 40 45
 Gly Pro Gln Gln Gly Lys Gly Pro Glu Pro Ala Lys Pro Pro Glu Pro
 50 55 60
 Gly Lys Pro Pro Gly Pro Ala Lys Gly Lys Lys
 65 70 75

<210> 963
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 963
 Met Asn Leu His Tyr Leu Leu Ala Val Ile Leu Ile Gly Ala Ala Gly
 1 5 10 15
 Val Phe Ala Phe Ile Asp Val Cys Leu Gln Arg Asn His Phe Arg Gly
 20 25 30
 Lys Lys Ala Lys Lys His Met Leu Val Pro Pro Pro Gly Lys Glu Lys
 35 40 45
 Gly Pro Gln Gln Gly Lys Gly Pro Glu Pro Ala Lys Pro Pro Glu Pro
 50 55 60
 Gly Lys Pro Pro Gly Pro Ala Lys Gly Lys Lys
 65 70 75

<210> 964

<211> 75
 <212> PRT
 <213> Homo sapiens

<400> 964

Met Asn Leu His Tyr Leu Leu Ala Val Ile Leu Ile Gly Ala Ala Gly
 1 5 10 15
 Val Phe Ala Phe Ile Asp Val Cys Leu Gln Arg Asn His Phe Arg Gly
 20 25 30
 Lys Lys Ala Lys Lys His Met Leu Val Pro Pro Pro Gly Lys Glu Lys
 35 40 45
 Gly Pro Gln Gln Gly Lys Gly Pro Glu Pro Ala Lys Pro Pro Glu Pro
 50 55 60
 Gly Lys Pro Pro Gly Pro Ala Lys Gly Lys Lys
 65 70 75

<210> 965
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 965

Met Asn Leu His Tyr Leu Leu Ala Val Ile Leu Ile Gly Ala Ala Gly
 1 5 10 15
 Val Phe Ala Phe Ile Asp Val Cys Leu Gln Arg Asn His Phe Arg Gly
 20 25 30
 Lys Lys Ala Lys Lys His Met Leu Val Pro Pro Pro Gly Lys Glu Lys
 35 40 45
 Gly Pro Gln Gln Gly Lys Gly Pro Glu Pro Ala Lys Pro Pro Glu Pro
 50 55 60
 Gly Lys Pro Pro Gly Pro Ala Lys Gly Lys Lys
 65 70 75

<210> 966
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 966

Phe Cys Leu Phe Val Cys Leu Phe Cys Met Ala His Val Phe Thr Ile
 1 5 10 15
 Pro Gly Ala Leu Pro Ser Phe Val Trp Ile Gln Phe Ser Ile
 20 25 30

<210> 967
 <211> 21

09950005660-09950005660

<212> PRT
 <213> Homo sapiens

<400> 967

Met Trp Leu Ser Ala Phe Phe Leu Ala Arg Leu Ala Asp Ser Val Leu
 1 5 10 15

Glu Glu Ser Ile Ile
 20

<210> 968

<211> 27

<212> PRT

<213> Homo sapiens

<400> 968

Met Ala Ser Trp Ile Cys Val Phe Cys Thr Ser Pro Ser Gly Cys Ser
 1 5 10 15

Ala Thr Cys Leu Val Cys Tyr Pro Ala Phe Pro
 20 25

<210> 969

<211> 34

<212> PRT

<213> Homo sapiens

<400> 969

Met Leu Phe Phe Phe Ser Ile Ala Leu Ser Ser Phe Phe Phe Leu Asn
 1 5 10 15

Leu Phe Leu Cys Leu Cys Asn Ser Arg Val Ile Gly Ile Val Leu Thr
 20 25 30

Ile Ser

<210> 970

<211> 71

<212> PRT

<213> Homo sapiens

<400> 970

Glu Arg Cys Leu Ser Leu Leu Phe Ala Ala Ile Ile Lys Ile Pro Ile
 1 5 10 15

His Gly Val Asn Tyr Asn Glu Glu Lys Phe Ile Ser Trp Ser Ser Gly
 20 25 30

Gly Trp Gly Val Pro Lys Ser Arg Cys Trp His Leu Val Arg Ser Phe
 35 40 45

Leu Leu Ser Thr Pro Trp Trp Arg Val Glu Gly Gln Lys Glu Arg Glu
 50 55 60

09950083-091201

Gly Trp Arg Pro Ile Gly Gly
65 70

<210> 971
<211> 32
<212> PRT
<213> Homo sapiens

<400> 971
Met Ser Val Phe Arg Val Ile Gln Ile Leu Leu Phe Pro Phe Ser Leu
1 5 10 15
Arg Tyr Ser Leu Gly Asp Leu Met Tyr Leu Asn Leu Thr Thr Ile Tyr
20 25 30

<210> 972
<211> 118
<212> PRT
<213> Homo sapiens

<400> 972
Met Asp Leu Ala Gly Leu Leu Lys Ser Gln Phe Leu Cys His Leu Val
1 5 10 15
Phe Cys Tyr Val Phe Ile Ala Ser Gly Leu Ile Ile Asn Thr Ile Gln
20 25 30
Leu Phe Thr Leu Leu Leu Trp Pro Ile Asn Lys Gln Leu Phe Arg Lys
35 40 45
Ile Asn Cys Arg Leu Ser Tyr Cys Ile Ser Ser Arg Leu Gln Gly Pro
50 55 60
Gly Gln Glu Arg Ala Gly Leu Cys Pro Asn Tyr Arg Leu Asp Val Val
65 70 75 80
Leu His Arg Asp Gly Leu Leu Phe Ala Gln Val Gly Ala Gly Ser Gln
85 90 95
Asp Gly Cys His Gln Phe Ala Ala Pro Pro Gly Leu Pro Arg Glu Val
100 105 110
Phe Phe Pro Asp Ser Leu
115

<210> 973
<211> 42
<212> PRT
<213> Homo sapiens

<400> 973
Glu Trp Val Lys Gly Ile Val Ile Trp Gln Phe Tyr Leu Leu Phe Tyr

1 5 10 15

Ala Cys Leu Ser Ser Ala Cys Leu Phe Ser Pro Ser Ala Asn Ile Pro
20 25 30

Phe Met Pro Trp Ala Phe Ser Thr Val Leu
35 40

<210> 974

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 974

Tyr Ile Thr Ser Cys Arg Leu Thr Thr Ser Phe Phe Cys Cys Phe Arg
1 5 10 15

Asn Leu Leu Ser Ile Ile Arg Leu Gln Asp Ser Ala Ser Ser Cys Leu
20 25 30

Asp Ser Ile Ser Lys Ser Pro Ser Ser Cys Pro Ser Xaa Met Ser Val
35 40 45

Xaa Thr Pro Gln Tyr Ile Lys Lys Ser Ile Ser Glu Ser Gly Leu
50 55 60

<210> 975

<211> 54

<212> PRT

<213> Homo sapiens

<400> 975

Met Trp Cys Leu Ser His Leu Ser Leu Ser Leu Ser Leu Ser His Leu
1 5 10 15

Ser Leu Ala Arg Arg Ala Gly Arg Pro Met Pro Trp Cys Pro Ala Thr
20 25 30

Gln Leu Val Ile Leu Trp Leu Gln Asn Trp Trp Ser Pro Met Met Asp
35 40 45

Met Arg Arg Ser Leu Arg
50

<210> 976

102160-28005650

<211> 58
 <212> PRT
 <213> Homo sapiens

<400> 976
 Met Gly Phe Pro Leu Trp Ile Thr Arg Pro Phe Ser Leu Ala Ala Leu
 1 5 10 15
 Asn Val Phe Phe Ile Pro Phe Asn Leu Gly Glu Ser Asp Asp Tyr Val
 20 25 30
 Ser Trp Gly Cys Ser Ser Arg Glu Val Ser Leu Trp Trp Ser Leu Ser
 35 40 45
 Phe Leu Asn Leu Asn Val Gly Leu Ser Cys
 50 55

<210> 977
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 977
 Met Gly Phe Pro Leu Trp Ile Thr Arg Pro Phe Ser Leu Ala Ala Leu
 1 5 10 15
 Asn Val Phe Phe Ile Pro Phe Asn Leu Gly Glu Ser Asp Asp Tyr Val
 20 25 30
 Ser Trp Gly Cys Ser Ser Arg Glu Val Ser Leu Trp Trp Ser Leu Ser
 35 40 45
 Phe Leu Asn Leu Asn Val Gly Leu Ser Cys
 50 55

<210> 978
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 978
 Leu Pro Arg Leu Gln Ser Ala Leu Leu Leu Leu Pro Leu Pro Pro Thr
 1 5 10 15
 Leu Gln Gly His Val Arg Ala Pro Ile Tyr Pro Pro Pro Ala Cys Arg
 20 25 30
 Ser

<210> 979
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 979

Met Pro His Pro Cys Leu Pro Val Ser Thr His Leu Glu Gly Arg Trp
1 5 10 15

Gly Cys

<210> 980

<211> 266

<212> PRT

<213> Homo sapiens

<400> 980

Met Gln Ile Val Lys Leu Leu Gly Leu Asp Val Pro Ser Leu Cys Leu
1 5 10 15

Ala Glu Leu Val Lys Thr Tyr Cys Ser Ser Phe Lys Leu Phe Gln Ala
20 25 30

Ser Pro Ser Val Pro Ala Lys Tyr Val Glu Asp Lys Glu Lys Met Leu
35 40 45

Ser Arg Thr Met Gln Leu Val Glu Leu Ala Asn Glu Thr Trp Leu Val
50 55 60

Thr Gly Arg His Pro Leu Pro Val Ile Thr Ala Ala Thr Phe Leu Ala
65 70 75 80

Trp Gln Ser Leu Gln Pro Ala Asp Arg Leu Ser Cys Ser Leu Ala Arg
85 90 95

Phe Cys Lys Leu Ala Asn Val Asp Leu Pro Tyr Pro Ala Ser Ser Arg
100 105 110

Leu Gln Glu Leu Leu Ala Val Leu Leu Arg Met Ala Glu Gln Leu Ala
115 120 125

Trp Leu Arg Val Leu Arg Leu Asp Lys Arg Ser Val Val Lys His Ile
130 135 140

Gly Asp Leu Leu Gln His Arg Gln Ser Leu Val Arg Ser Ala Phe Arg
145 150 155 160

Asp Gly Thr Ala Glu Val Glu Thr Arg Glu Lys Glu Pro Pro Glu Trp
165 170 175

Gly Gln Gly Gln Gly Glu Gly Glu Val Gly Asn Asn Ser Leu Gly Leu
180 185 190

Pro Gln Gly Lys Arg Pro Ala Ser Pro Ala Leu Leu Leu Pro Pro Cys
195 200 205

Met Leu Lys Ser Pro Lys Arg Ile Cys Pro Val Pro Pro Val Ser Thr
210 215 220

Val Thr Gly Asp Glu Asn Ile Ser Asp Ser Glu Ile Glu Gln Tyr Leu
225 230 235 240

Arg Thr Pro Gln Glu Val Arg Asp Phe Gln Arg Ala Gln Ala Ala Arg

00550082 - 091201

255

<213> Homo sapiens

<400> 984

Ala Gly Gly Leu Gly Leu His Ala Arg Cys Trp Arg
1 5 10

<210> 985

<211> 22

<212> PRT

<213> Homo sapiens

<400> 985

Ile Leu Ile Phe Met Val Phe Pro Phe Val Leu Val Phe Ala Ser Leu
1 5 10 15

Thr Ser Val Ile Ser Ile
20

<210> 986

<211> 18

<212> PRT

<213> Homo sapiens

<400> 986

Met Val Ala Trp Thr Ser Thr Trp Ser Arg Ala Trp Gln Ser Thr Leu
1 5 10 15

Arg Met

<210> 987

<211> 151

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (87)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (95)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (108)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (119)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (150)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 987
 Met Arg Val Xaa Ala Pro Arg Thr Xaa Leu Leu Leu Xaa Gly Ala
 1 5 10 15
 Xaa Ala Leu Thr Glu Thr Trp Ala Gly Ser His Ser Met Arg Tyr Phe
 20 25 30
 Tyr Thr Ala Xaa Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ala
 35 40 45
 Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Ser Asp Ala
 50 55 60
 Arg Val Arg Gly Xaa Ser Xaa Gly Arg Leu Arg Arg Gln Gly Leu His
 65 70 75 80

Arg Pro Glu Arg Gly Pro Xaa Leu Leu Asp Arg Xaa Gly His Xaa Gly
 85 90 95

Ser Asp His Pro Ala Gln Val Gly Gly Gly Pro Xaa Gly Gly Ala Ala
 100 105 110

Glu Ser Leu Pro Gly Gly Xaa Val Arg Gly Val Ala Pro Gln Ile Pro
 115 120 125

Gly Glu Arg Glu Gly Asp Ala Ala Ala Arg Gly Pro Pro Lys Asp Thr
 130 135 140

Arg Asp Pro Pro Pro Xaa Leu
 145 150

<210> 988
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 988
 Leu Leu Arg Pro Leu Ala Trp Leu Val Leu Arg Ala Pro Arg Gly Gly
 1 5 10 15

Ala Gln Thr Pro Leu Tyr Cys Ala Leu Gln Glu Gly Ile Glu Pro Leu
 20 25 30

Ser Gly Arg Tyr Phe Ala Asn Cys His Val Glu Glu Val Pro Pro Ala
 35 40 45

Ala Arg Asp Asp Arg Ala Ala His Arg Leu Trp Glu Ala Ser Lys Arg
 50 55 60

Leu Ala Gly Leu Gly Pro Gly Glu Asp Ala Glu Pro Asp Glu Asp Pro
 65 70 75 80

Gln Ser Glu Asp Ser Glu Ala Pro Ser Ser Leu Ser Thr Pro His Pro
 85 90 95

Glu Glu Pro Thr Val Ser Gln Pro Tyr Pro Ser Pro Gln Ser Ser Pro
 100 105 110

Asp Leu Ser Lys Met Thr His Arg Ile Gln Ala Lys Val Glu Pro Glu
 115 120 125

Ile Gln Leu Ser
 130

<210> 989
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 989
 Glu Thr Val Gly Cys Gly Phe Ser Leu Ser Phe Phe Phe Asn Phe Leu
 1 5 10 15

Cys Trp Val Phe Glu Gln Pro His Val Pro Phe Pro Gly Ser Leu Leu
 20 25 30

Ile Tyr Leu Leu Glu Leu Lys Trp Met Gly Ser Arg Ala Leu Cys Val
 35 40 45

Ser Met Leu Cys Phe Leu Thr Arg Leu His Ser Glu Ala Leu Met Pro
 50 55 60

Phe Gly
 65

<210> 990
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 990
 Met Ala Thr Leu Ser Leu Arg Ala Gly Leu Gly Phe Cys Phe Leu Leu
 1 5 10 15

Gly Leu Thr Glu Tyr Phe Val Gly Phe His Leu Ile Pro
 20 25

<210> 991
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 991
 Met Leu Ile Arg Leu Tyr Met Val Cys Gly Cys Phe Leu Pro Thr Thr
 1 5 10 15

Val Glu Leu Asn Ser Cys Ile Arg Asp Leu Met Ala Cys
 20 25

<210> 992
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 992
 Met Thr Cys Cys Leu Leu Arg Ser Gly Val Pro Val Cys Leu Ser Leu
 1 5 10 15

<210> 993
 <211> 78
 <212> PRT
 <213> Homo sapiens

095503E-091201

<400> 993

Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu
 1 5 10 15

Trp Leu Val Leu Ser Cys Leu Cys Pro Ser Ser Pro His Pro Val Ile
 20 25 30

Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro
 35 40 45

Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Asp Leu Gln Arg Glu
 50 55 60

Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr
 65 70 75

<210> 994

<211> 37

<212> PRT

<213> Homo sapiens

<400> 994

Met Gly Leu Arg Arg His Phe Pro Ala Leu Trp Val Leu Trp Trp Pro
 1 5 10 15

Trp Cys Pro Ser Trp Arg Gln Thr Arg Thr Pro Ser Ala Pro Ser Met
 20 25 30

Gln Met Ala Thr Arg
 35

<210> 995

<211> 26

<212> PRT

<213> Homo sapiens

<400> 995

Cys Gly Thr Ala Tyr Cys Leu Phe Thr Pro Ser Pro Gly Met Pro Gln
 1 5 10 15

Ala Ser Ala Phe His Cys Ser Ser Leu Phe
 20 25

<210> 996

<211> 39

<212> PRT

<213> Homo sapiens

<400> 996

Ala Leu Arg Gly Pro Ala Phe Asn Trp Leu Leu Cys Cys Ser Ser Thr
 1 5 10 15

Ile Phe Cys Arg Ala Gln Ile Ala Leu Leu Pro Leu Ser Pro Ala Ser
 20 25 30

0950032-091201

Thr Pro Ser Pro Thr Thr Arg
35

<210> 997
<211> 33
<212> PRT
<213> Homo sapiens

<400> 997
Met Leu Leu Gly Thr Tyr Phe Lys Val Tyr Leu Ile Phe Lys Cys Phe
1 5 10 15

Tyr Ile Phe Leu Tyr Lys Ser Arg Lys Met His Phe His Leu Gln Lys
20 25 30

Ser

<210> 998
<211> 32
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 998
Met Gly Leu Val Glu Arg Leu Leu Xaa Cys Phe Thr His Gly Leu Trp
1 5 10 15

Gln Phe Ala Gln Thr Ala Pro Ile Arg Thr Pro Leu Ala Ala Phe Ala
20 25 30

<210> 999
<211> 196
<212> PRT
<213> Homo sapiens

<400> 999
Met Trp Phe Met Tyr Leu Leu Ser Trp Leu Ser Leu Phe Ile Gln Val
1 5 10 15

Ala Phe Ile Thr Leu Ala Val Ala Ala Gly Leu Tyr Tyr Leu Ala Glu
20 25 30

Leu Ile Glu Glu Tyr Thr Val Ala Thr Ser Arg Ile Ile Lys Tyr Met
35 40 45

Ile Trp Phe Ser Thr Ala Val Leu Ile Gly Leu Tyr Val Phe Glu Arg
50 55 60

0950032 091201

Phe Pro Thr Ser Met Ile Gly Val Gly Leu Phe Thr Asn Leu Val Tyr
 65 70 75 80
 Phe Gly Leu Leu Gln Thr Phe Pro Phe Ile Met Leu Thr Ser Pro Asn
 85 90 95
 Phe Ile Leu Ser Cys Gly Leu Val Val Val Asn His Tyr Leu Ala Phe
 100 105 110
 Gln Phe Phe Ala Glu Glu Tyr Tyr Pro Phe Ser Glu Val Leu Ala Tyr
 115 120 125
 Phe Thr Phe Cys Leu Trp Ile Ile Pro Phe Ala Phe Phe Val Ser Leu
 130 135 140
 Ser Ala Gly Glu Asn Val Leu Pro Ser Thr Met Gln Pro Gly Asp Asp
 145 150 155 160
 Val Val Ser Asn Tyr Phe Thr Lys Gly Lys Arg Gly Lys Arg Leu Gly
 165 170 175
 Ile Leu Val Val Phe Ser Phe Ile Lys Glu Ala Ile Leu Pro Ser Arg
 180 185 190
 Gln Lys Ile Tyr
 195

<210> 1000
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1000
 Met Arg Gln Arg Gln Ser His Tyr Cys Ser Val Leu Phe Leu Ser Val
 1 5 10 15
 Asn Tyr Leu Gly Gly Thr Phe Pro Val Tyr Gln Lys Ser Arg Asn Leu
 20 25 30
 Gln Arg Asp Lys Ile Gln Glu Thr Phe Ala Gln Lys Arg Ile Lys
 35 40 45

<210> 1001
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1001
 Gly Arg Arg Arg Ala Gln Leu Leu Trp His Ile Ile Phe Leu Gln Leu
 1 5 10 15
 Tyr Phe Trp Ala Arg Trp Gln Arg Glu Gly Ser Val Met Pro Pro His
 20 25 30
 Arg His Ser Ile Arg Arg Arg Val Asp Ser Phe Trp Met Leu
 35 40 45

```
<210> 1002
<211> 22
<212> PRT
<213> Homo sapiens
```

```
<400> 1002
Met Leu Leu Ala Val Ile Leu Gln Leu Ile Pro Pro Val Thr Lys Ala
  1                               10                      15
Phe Val Tyr Glu Leu Thr
      20
```

```
<210> 1003
<211> 5
<212> PRT
<213> Homo sapiens
```

```

<400> 1003
Met  Pro  Cys  Leu  Phe
  1                      5

```

```
<210> 1004
<211> 29
<212> PRT
<213> Homo sapiens
```

```
<400> 1004
Met Gly Lys Lys His His Val Gly Arg Thr Ala Trp Val Phe Ala Leu
  1             5             10             15
```

Val Val Val Cys Ile Leu Gly Pro Leu Leu Cys Ser Ser
20 25

```
<210> 1005
<211> 43
<212> PRT
<213> Homo sapiens
```

<400> 1005
Met Val Pro Leu Leu Arg Leu Cys Ser Ser Phe Val Leu Leu Leu Phe
1 5 10 15

Cys Tyr Val Thr Ala Lys Lys Lys Lys Lys Lys Glu Lys Lys Ser Ala
20 25 30

Asn Cys Val His Ala Phe Leu Pro Ala Gly Met
35 40

<210> 1006
<211> 90

<212> PRT
 <213> Homo sapiens

<400> 1006

Met Asn Ile Lys Cys Phe Val Met Cys Gly Gly Leu Tyr Leu Ala Ser
 1 5 10 15

Ile Leu Val Thr Trp Arg Glu His Gly Ser Pro His Phe Leu Asp Glu
 20 25 30

His Thr Asn Val Leu Arg Lys Cys Met Ile Gly Ser Lys Leu Gln Asn
 35 40 45

His Leu Pro Ser Arg Ile Ile Pro Ile Ile Cys Thr Ala Ser Pro Gly
 50 55 60

Ala Asn Gly Phe Ile Gln Arg Gly Ser Thr Glu Leu Trp Val Ile Arg
 65 70 75 80

Arg Gln Tyr Pro Arg Val Arg Val Phe Pro
 85 90

<210> 1007
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1007

Met Tyr Ile Phe Glu Leu Ser Leu Tyr Leu Glu Gly Thr Ser Phe Val
 1 5 10 15

Val Val Leu Leu Phe Leu Leu Ile Ser Val Ser Leu Asp Ser Pro Pro
 20 25 30

Thr Thr Lys Gly Trp Gly Leu Cys Leu Thr Tyr Leu Gly Ala Leu Ile
 35 40 45

Val Gln
 50

<210> 1008
 <211> 3
 <212> PRT
 <213> Homo sapiens

<400> 1008

Val Glu Arg
 1

<210> 1009
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 1009

Met Phe Pro Cys Cys Trp Ala His Leu Gln Arg Gly Gly Lys Val Leu
 1 5 10 15

Cys Leu Leu Val Leu Leu Val Leu Ser Leu Pro Thr Glu His His Val
 20 25 30

Ala Asn Lys
 35

<210> 1010
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 1010
 Met Gly Ser Trp Leu Trp Thr Val Ala Asn Leu Leu His Ile Pro Pro
 1 5 10 15

Asn Leu Tyr Arg Met Leu Ala Gly Arg Trp Gln Arg Ala His Trp Asp
 20 25 30

<210> 1011
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 1011
 Met Ala Ser Glu Leu Ala Arg Leu Leu His Ala Phe Gly Leu Met Gly
 1 5 10 15

Pro Arg Lys Ala Gly Glu Ser Ser
 20

<210> 1012
 <211> 66
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (31)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1012
 Met Gln Leu Glu Ala Leu Asn Leu Leu His Thr Leu Val Trp Ala Arg
 1 5 10 15

Ser Leu Cys Arg Ala Gly Ala Val Gln Thr Gln Glu Arg Leu Xaa Gly
 20 25 30

Ser Ala Ser Pro Glu Gln Val Pro Ala Gly Glu Cys Cys Ala Leu Gln
 35 40 45

0950032.091201

Glu Tyr Glu Ala Ala Val Gly Ala Ala Gln Glu Arg Ala Asp Pro Gly
 50 55 60

Ala Gly
 65

<210> 1013

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1013

Met Leu Pro Ser Pro Lys Pro Ala Pro Leu Pro His Phe Pro Val Ala
 1 5 10 15

Pro Leu Val Leu Phe Ala His Trp Xaa Leu Cys Ser Ser Lys Gly Val
 20 25 30

Leu Pro Glu Val Arg Gly Leu Ser Leu His Pro Leu Gly His Gly Ala
 35 40 45

Ala Val Pro Ala Leu Pro Leu Pro Glu Ala Ala Ala Pro Ala
 50 55 60

<210> 1014

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1014

Met Leu Pro Ser Pro Lys Pro Ala Pro Leu Pro His Phe Pro Val Ala
 1 5 10 15

Pro Leu Val Leu Phe Ala His Trp Xaa Leu Cys Ser Ser Lys Gly Val
 20 25 30

Leu Pro Glu Val Arg Gly Leu Ser Leu His Pro Leu Xaa His Gly Ala
 35 40 45

Ala Val Pro Ala Leu Pro Leu Pro Glu Ala Ala Ala Pro Ala
 50 55 60

06950082-09101

<210> 1015
 <211> 124
 <212> PRT
 <213> Homo sapiens

<400> 1015
 Met Ala Asp Thr Ala Cys Asp Ser Asp Val Leu Leu Gln Leu Val Leu
 1 5 10 15
 Val Trp Leu Gly Glu Val Leu Gly Val Ile Gly Asp Cys Pro Glu Leu
 20 25 30
 Val Gln Arg Ser Phe Leu Val Ala Ser Val Leu Pro Gly Pro Asp Gly
 35 40 45
 Asn Ile Asn Ser Pro Thr Arg Asn Ala Asp Met Gln Glu Glu Leu Ile
 50 55 60
 Ala Ser Leu Glu Glu Gln Leu Lys Leu Ser Gly Glu His Ser Glu Ser
 65 70 75 80
 Ser Thr Pro Arg Pro Arg Ser Ser Pro Glu Glu Thr Ile Glu Pro Glu
 85 90 95
 Ser Leu His Gln Leu Phe Glu Gly Glu Ser Glu Thr Glu Ser Phe Tyr
 100 105 110
 Gly Phe Glu Glu Ala Asp Leu Asp Leu Met Glu Ile
 115 120

<210> 1016
 <211> 348
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1016
 Met Asn Met Thr Gln Ala Arg Val Leu Val Ala Ala Val Val Gly Leu
 1 5 10 15
 Val Ala Val Leu Leu Tyr Ala Ser Ile His Lys Ile Glu Glu Gly His
 20 25 30
 Leu Xaa Val Tyr Xaa Arg Gly Gly Ala Leu Leu Thr Ser Pro Ser Gly
 35 40 45
 Pro Gly Tyr His Ile Met Leu Pro Phe Ile Thr Thr Phe Arg Ser Val

FOI b7 - 2800560

50					55					60				
Gln Thr Thr Leu Gln Thr Asp Glu Val Lys Asn Val Pro Cys Gly Thr	65				70				75					80
Ser Gly Gly Val Met Ile Tyr Ile Asp Arg Ile Glu Val Val Asn Met				85				90					95	
Leu Ala Pro Tyr Ala Val Phe Asp Ile Val Arg Asn Tyr Thr Ala Asp			100					105					110	
Tyr Asp Lys Thr Leu Ile Phe Asn Lys Ile His His Glu Leu Asn Gln			115				120					125		
Phe Cys Ser Ala His Thr Leu Gln Glu Val Tyr Ile Glu Leu Phe Asp			130				135				140			
Gln Ile Asp Glu Asn Leu Lys Gln Ala Leu Gln Lys Asp Leu Asn Leu	145				150				155					160
Met Ala Pro Gly Leu Thr Ile Gln Ala Val Arg Val Thr Lys Pro Lys				165				170					175	
Ile Pro Glu Ala Ile Arg Arg Asn Phe Glu Leu Met Glu Ala Glu Lys			180				185					190		
Thr Lys Leu Leu Ile Ala Ala Gln Lys Gln Lys Val Val Glu Lys Glu			195				200					205		
Ala Glu Thr Glu Arg Lys Lys Ala Val Ile Glu Ala Glu Lys Ile Ala			210				215				220			
Gln Val Ala Lys Ile Arg Phe Gln Gln Lys Val Met Glu Lys Glu Thr	225				230				235					240
Glu Lys Arg Ile Ser Glu Ile Glu Asp Ala Ala Phe Leu Ala Arg Glu				245				250					255	
Lys Ala Lys Ala Asp Ala Glu Tyr Tyr Ala Ala His Lys Tyr Ala Thr			260				265						270	
Ser Asn Lys His Lys Leu Thr Pro Glu Tyr Leu Glu Leu Lys Lys Tyr			275				280					285		
Gln Ala Ile Ala Ser Asn Ser Lys Ile Tyr Phe Gly Ser Asn Ile Pro			290				295				300			
Asn Met Phe Val Asp Ser Ser Cys Ala Leu Lys Tyr Ser Asp Ile Arg	305				310				315					320
Thr Gly Arg Glu Ser Ser Leu Pro Ser Lys Glu Ala Leu Glu Pro Ser				325				330					335	
Gly Glu Asn Val Ile Gln Asn Lys Glu Ser Thr Gly			340					345						

<210> 1017

<211> 132

<212> PRT

<213> Homo sapiens

<400> 1017

Met Leu Val Ile Gln Ile Thr Ser Val Asp Phe His Gly Ile Pro Leu
1 5 10 15

Ser Val Pro Gln Ser Leu Thr Arg Arg Gln Cys Thr Cys Arg Gly Trp
20 25 30

Lys Glu Asp Glu Pro Met Ser Arg Leu Cys Ile Asn Gln Gly Glu Arg
35 40 45

Lys Ser Arg Trp Lys Glu Val Gly Arg Trp Arg Lys Gln Gln Leu Leu
50 55 60

Leu Ala Leu Asp Asp Gly Pro Glu Gly Leu Ser Leu Leu Val Thr Pro
65 70 75 80

Leu Trp Val Leu Phe Pro Tyr Leu Ser Val Thr Arg Phe Leu Ile Leu
85 90 95

Ile Pro Cys Cys Glu Phe Gly Ser Leu Cys Trp Ala Ile Gln Ser Ser
100 105 110

Ser Glu Arg Ala Lys Leu Val Leu Glu Leu Arg Cys Arg Trp Gly Lys
115 120 125

Arg Gly Leu Ser
130

<210> 1018

<211> 9

<212> PRT

<213> Homo sapiens

<400> 1018

Met Pro Leu Trp Ala His Leu Ala Ser
1 5

<210> 1019

<211> 131

<212> DNA

<213> Homo sapiens

<400> 1019

ggaggctgag gcaggagaat ggcgtgaacc caggaggcgg agcttgcaat gagctgagat 60
tgcgccactg cactccagcc tgggcaacag agcgagactc cgtctgaaaa aaaaaaaac 120
aaaaactggt g 131

<210> 1020

<211> 162

<212> DNA

<213> Homo sapiens

<400> 1020

agctacttgg gaggctgagg caggagaatg gcgtgaaccc gggaggcggg gcttgcaatg 60

agccgagatc ccgccactgc actccagcct gggcgacaga gcgagactcc gtctcaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaca aa 162

<210> 1021
 <211> 100
 <212> DNA
 <213> Homo sapiens

<400> 1021
 ctgaggcagg agaatggcgt gaacccgaga ggcggagctt gcagtgagcc gagatcgcg 60
 cactgcactc cagcctgggc gacagagcga gactcccctt 100

<210> 1022
 <211> 140
 <212> DNA
 <213> Homo sapiens

<400> 1022
 ggctgaggca ggagaatggc gtgaaccgga gaggcggagc ttgcagtga tgcagatcgc 60
 gccactgcac tccagcctgg ggcagagagc gaaactccgt ctcaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa gaggggaaaa 140

<210> 1023
 <211> 114
 <212> DNA
 <213> Homo sapiens

<400> 1023
 gaggcaggag aatggcgtga accctggagg cagagcttgc agtgagccga gatcgcgcca 60
 ctgcactcca gcctgggcga cagagcaaga ttccgtctca aaaaaaaaaa aacg 114

<210> 1024
 <211> 61
 <212> DNA
 <213> Homo sapiens

<400> 1024
 atgccactgc actccagcct gggcgacaga gtgagactcc atctcaaaaa aaaaaaaaaa 60
 a 61

<210> 1025
 <211> 136
 <212> DNA
 <213> Homo sapiens

<400> 1025
 ggcaggagaa tggcgtgaac ccgggaggcg gagcttgcag tgagccgaga ttgtgccact 60
 gcactccagc ctgggcgaca gactgagact ccgtctcaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaa 136

<210> 1026
 <211> 123
 <212> DNA
 <213> Homo sapiens

<400> 1026
aggcaggaga atggcggtgaa cccggggagggc ggagcttgca gtgagccgag atccccgccac 60
tgactccag cctggggcgac agagcgagct ccgtctcaaa aaaaaaaaaa aaaaatgctg 120
tta 123

<210> 1027
<211> 45
<212> DNA
<213> Homo sapiens

<400> 1027
ccagcctggg ggacagagcg agactccgtc tcaaaaaaaaa aaaaa 45

<210> 1028
<211> 368
<212> DNA
<213> Homo sapiens

<400> 1028
ggcatgggca aggacttcat gtctaaaacg ccaaaagcaa tggcaacaaa agacaaaatt 60
gacaaatggg atctaattaa actaaagagc ttctgcacag caaaagagtc taccatcaga 120
gtgaacaggc aacctataca atggggagaaa aatttttgcaa tctactcatc tgacaaaggg 180
ctaatatcca gaatctacag tgaactcaaa caaatttaca agaaaaaac aaacaacccc 240
atcaaaaagt gggcaaagta tatgaacaga cacttctcaa aagaagacat ttatgcagct 300
aaaagacaca tgaaaaaatg cccatcatca ctggccatca gagaaatgca aatcaaaacc 360
acaatgag 368

<210> 1029
<211> 2925
<212> DNA
<213> Homo sapiens

<400> 1029
ctccccagta gctggggacta caggcgcccg ccaccacgcc tggctaattt tttgtatttt 60
tagtagagac ggggtttcac cgcgttagcc aggatggtct tgatctcctg acctcgtgat 120
cgcgccgtct cggcctccca aagtcctggg attacaggcg tgagccaccg cgcccggctg 180
agatgggtat tattaagaaa ttaagatgtg gattaccagg gtaagtcata tttcaatgtg 240
caacctctgc aagtccacag ggtgtgatat ggacattaag gagatctatg gacgaatagc 300
gtatgatacc ttgacaagtt gacaaaatgt aaaatagttg aatggccata gaaaaaaacc 360
agcttttttag ccccataggg cgaggggattc aggagggctg gctacgggca ttttggaatg 420
gaagatgttg taccaacaaa tcaagcttag gttcctggca atttgcccac atataaatatg 480
tgaaagttca gatgtgaaat aaatctgctg ctaatagtaa gaacctagcc acaggagtta 540
aaacttacgg ttctgggacc agatggactg ccttctaate ttagtcttac tacatttttag 600
cggtaaaaacc ttcagcaagt tatttagcct ccagcatctc agttttctca tctgtaaaat 660
ggtgataatg ctactcttac attgggttgt agtaggataa aaggagaaaa cgtatgtaaa 720
ggatttagta gaaacttatt aaaattaagc aattattatt tctcaattct aagattctaa 780
cctgcaaaag gcataaggca gctgctgaga acagggtgag aagataggga ttcgggtcagg 840
aaaagtcttg tttccctgtt gctgttggtg gttttgtttg ctcatgtgtg tgtttttttt 900
attaatcatt ttcacttgtg tttattgaca agcttaatca ataatgccat tgacatttag 960
taaaagtaaa tttccttaag tgatctccca ggtagcaatg tttattcatt atgtgtggag 1020
tagagatagg aattattttta ttgctgcaaa tattttatta ttggtttttc aagtttttaa 1080
agtaatttta attttttaat ttttgtgagt atatagtaa tgacacatatt tatggggtag 1140
atgatataat ttgatacagg catatgatgt gtaataatca catcagggtg aacagggtaa 1200
gcataccctc aagcatttgt ccttttttgt attacaaaga atctaattat actcttttag 1260
ttatttttaa atgtacaata aattattgtt gactatagtt ttgccactgc aaacaataga 1320
aggcttcctg atacagcctc ctagtcatgt gagttctatg gcagaattcc taaagttttt 1380
aagtttcatg agatggctaa attttggtaa atatgatact ttctttgaac agatgttaca 1440
gaggccaata taaaggagtg taacagagtg acacctgtga tcagtatctc tccaactaca 1500

aagagtgtcc	cttaaatttc	ttctgtgtgg	ttcctctttt	tttttttttt	tttttttgag	1560
acgaagtctc	gctctgtcgc	ccaggctgga	gtgcagtggc	gcgaacttgg	ctcgtgcaa	1620
gtccgcctc	ccgggttcac	tccattctcc	tgccctaccc	tctcaagtag	ctgggactac	1680
agggtgcctgc	caccactccc	ggctaatttt	tttttgcatt	tttagtgaga	gatggggttt	1740
cactgtgtta	gccaggatgg	tctccatctc	ctgacctcat	gatccagccg	ccttggcctc	1800
ccaaagtgtc	cggattacag	gcgtgagcca	ccgcgctcgg	cctgtgtggc	tcctcttaag	1860
taatactctg	cttcgtccat	ataagcagag	gtcagaactg	gctaagaatt	tctttatgtg	1920
tgtttatcct	gatgttttcc	tactgtcact	tttcttttct	tatggattag	cattgaggga	1980
atggtcagat	gggtgcctgcg	tgagtctgat	tgaaacattt	tagcggcggg	gtgcgggggt	2040
tgatggcatg	tgcaatagtt	taggatattt	gagttagtgg	cagaatgtag	acatgagggt	2100
gagtagagag	tgcgtagcag	agcaagcaat	tcaggaatct	atgttggtta	attacttttg	2160
ttttgtggac	attttattct	acctgaaaag	attatctagg	aactacagaa	attaatgacg	2220
tgtagtggaa	actttgcaca	gtgtaagtgt	tatccattta	cttctcttag	tttccaatac	2280
aatgactctc	ctggtagctg	tcatacatga	taaatataat	ttcgtttaata	aaattatatt	2340
ttatataaatt	gcgtacttta	aacaagtgat	caatataact	cagttataaa	tgtacagtaa	2400
caaagatcaa	tggataataa	atacttctgc	gttcattttc	atggatacat	tctatttttg	2460
tttgtctcac	aagcagtaat	cagactatga	atcatgatat	agctccataa	acacttactt	2520
tatagcaatt	cactgatata	tgctccacca	aaaaaaatta	agagacggat	acaagcaatt	2580
taaagcttct	gtgtgtgtgt	gcatgcaacc	gatgtgtatg	gctttttttt	tttttttttt	2640
ttttgacaca	gagtgctcgt	ctgtcgcccc	ggctggagtg	cagtggcgtg	atctccgctc	2700
actgcaagct	ccgcctgcct	ggttcacgcc	attctcctgc	cttagcctcc	caagtagctg	2760
ggacttcagg	cgccctgacac	cacgcctggc	taattttttg	tatttttagt	agagacgggg	2820
tttcaccgtg	ttatccagga	tgggtctccat	ctcctgacct	cgtgatccac	ctgcctccgc	2880
ctcccaaagt	gctgggatta	caggcttgag	cctcctcgcc	cggcc		2925

<210> 1030

<211> 102

<212> DNA

<213> Homo sapiens

<400> 1030

tttttttttt	tttttttttt	gagacggagt	ctcgtctctgt	cgcccaggct	ggagtgcagt	60
ggcacgatct	cggctcactg	caagctctgc	ctcccgggtt	ca		102

<210> 1031

<211> 22001

<212> DNA

<213> Homo sapiens

<400> 1031

ggaagtgcaa	agaggcgggc	gtgccagtcc	ctggacagct	acgacgccat	gaatatcttg	60
cccaagaaga	gctggcacgt	ccggaacaag	gacaatgtcg	ccgcgtgcg	gcgtgacgag	120
gcccaggccc	gggaggagga	gaaggagcgt	gagcggaggg	tgctgctggc	tcagcaagag	180
gtaagctcgg	aagccggcag	ggcggcgctc	cggggcccag	cgcgcaggcg	ccgcggttgg	240
gggcccgaag	cggaggcggt	gcgcaggctc	aatgtgcccc	gtgtgaaatt	cgggaccagg	300
cgccgatccc	actttcgagg	acgttgcccc	gcaaaccctg	tgcccacttc	cacgaaacct	360
tccttgatct	cgccctcgtc	ttagtttttc	ccccactgat	gtatttcaca	tggctggaac	420
agtgtctagc	acaaaagaga	agcttaacat	ttaatgaatc	cgtgaaccct	tggacagttc	480
aaggaaattc	ggatcacttt	ttagtttgcc	tgcacagcct	atttattgag	catctactgt	540
atgctaacta	catgccgtgc	acctgacttg	cggaatcccc	aataagcact	gttcgttctt	600
agaggggcac	tgatcatctc	gttgcacgaa	gtgagatggc	ttcagtgagg	ggaaggcaca	660
ttttaaggag	aggcggacag	ccaggctcca	cgccatcggg	cgagcccttt	cgtgcaccgc	720
cccctagaca	catacacaca	aacacgggct	ttccgtatgg	ctctttaaat	ctgttttggtg	780
tacaccaaac	tttcatttcc	ttagctagtc	tgatcctccg	ccgtgggtgg	gaggtagtct	840
aggtttttag	aatctcagta	ggctgctgag	cgctgtttga	aatccgcgtc	ctgaaggcag	900
gggacagggc	ttcagcagac	ttggggtagt	cacttgaggc	catggctaga	attcagatcg	960
tctggcctaa	tgcatacctt	tatggctggt	ttaattgtct	cacttgaggt	taggaacccc	1020
tttggttttag	gccagggacc	tctcaccata	catccttgat	gacccgtggg	ttactatattg	1080
aaagggagtt	tacaaaaccc	aggcgttgcc	tcactctgct	accctcacc	ccagctagga	1140

0950032 "091201

cagggtgcctc	tttttaggcgc	ctagtgtctcc	ctttctcata	accccagcac	cctggactgc	1200
cattttctgt	ggtgggcacc	agactcacag	ttcttgaatt	acctctaggt	tctgaatgtc	1260
ctgcctataa	ctttctcccc	aggcccgtac	agaattccta	cggaagaaag	ccagacatca	1320
gaactcactg	cctgagcttg	aagcagcaga	ggcgggagcc	ccaggttctg	gccctgtgga	1380
cctgtttcgg	gagctgctgg	aggaaggga	aggagtgatc	agaggcaata	aagagtacga	1440
ggaagaaaag	cgacaggaga	aagtaagctg	gcctcaccca	cttcacatcaga	ggggccatga	1500
atcgagttgg	agggaggggg	cacttttagcc	attggttggtg	accaaggtca	aacaagagtg	1560
aacacacaga	atttaggacc	ataccaaggc	atgacactca	aaaagcgttg	gctattgccc	1620
tctggggcgc	cacaggggtt	ggaggttagat	gctagaggtc	cccagctgct	gggcaaaccg	1680
ctcagttctc	caaactggag	gagtctcaaa	cctgatgggc	ttttaaaaat	ttaaatcagc	1740
cggctgtggc	tcacgcctgt	aatcccacca	ccttgggagg	ctgaggcggg	tggatcacct	1800
gaggtcagga	gttcaagacc	agcctgggtca	acatggtatc	tctaaaaata	caaaaaaaat	1860
tagccgggca	tgggtggtgcg	cgccgtgtaat	cccagggaag	ctgaagcagg	agaatcgctt	1920
gaccaggag	gtggaagctg	cagtaagccg	agattgcgcc	actgcactcc	agcctgggtg	1980
acagagcgag	accccatctc	aaaacaatca	aacaaaaagt	gaatcaatcg	cctcttgctt	2040
tttggttaag	atcaagtgtg	aaaggtacat	cagtggctgt	gcatgggtggc	tcacgcctgt	2100
aatcccagca	ctttgggagg	ccaacgtggg	tggatcacct	gaggtcagaa	gttcaagacc	2160
agcctggcca	aacatggcaa	aaccccgtct	ctactaaaaa	tacaaaaatt	agctgggcat	2220
ggtggtgtgt	gcctgtaatc	ccagctactc	ggggggctga	ggtaggagga	ttgcttgaac	2280
ctgggaagca	gaggttgtag	tgagccgaga	tcgtgccact	gcactcgagt	ctgggcaaca	2340
gagcgagact	ccatctcaaa	aaaaagaggt	acatcagctc	ttgtcattta	tgtctgtctc	2400
ctggacttgc	tgaccccacc	catcgctcct	ctgctttgct	tgatcccttc	aggcttctct	2460
tcaagtctct	ctgcaaagat	gcctgcctct	gaacactcaa	gtggctccac	ttgtcccttc	2520
cttcccttgc	tgttactgtg	cctgctactg	tccccccagg	gggagctttg	cctctgtttg	2580
tcttccatcc	ccagcacctg	gtccaaactgg	ttcataacaa	gccttagata	cctgttcgct	2640
tagatacctg	tgtcaggggag	acacacctga	caccttgaaa	gattatatca	catctcttgt	2700
atttctctgg	cccctcagga	gaggcaagag	aaagctctgg	gcacccctgac	atacctgggc	2760
cagagtgcag	cggaggcaca	gactcaaccc	ccttgggtacc	agctaccccc	agggcgaggg	2820
ggccccccgc	cgggccagc	cccagatgag	aagatcaaga	gccgtctgga	ccctctgcgg	2880
gagatcgaga	agcatctggg	gaagaagaga	cagcagcgcg	gtgatgaagg	cagtcgcagc	2940
agaaaggaaa	aggaggggtc	tgagaagcag	cgaccacaag	agtaagaaga	ccccacctcg	3000
gcagaccagg	gcccagacct	tcagggtctg	gcagcagccc	agcatgggca	ctgcagcgtc	3060
tctgggtcagg	acagccaggg	actccgtgaa	gggctggcta	ggtggagaag	tggttctcag	3120
catgtgggtc	agggagccct	aggggtcctg	acaccctttc	ccgggggtgct	gtgggtgtcaa	3180
gcctattttc	ctgacactgg	tggacttttc	cactcgtgtt	ctcaggcatg	tagtgcaggt	3240
ttccagaggg	tgtgtgatgg	ggagacaccc	tcactctgat	ggccaatggc	agatgcttgt	3300
gtccaaactt	tcttagtttt	cactaatgat	ttgcagcata	ttaagagaac	ccatttaaac	3360
aaaagctctt	ggggctcctg	gttttttaaga	gtataaaggg	gtcctgagac	caaagagttt	3420
gagactgtct	gggttagaga	gtaaaagcag	gcttctgtct	ccaggatgct	gcacccctgg	3480
tctagagggg	gtacactgcc	tgtagtcttc	tttctcttag	aaagggaac	tgaggggcag	3540
ggggctgcta	agtgtgcttt	cttgacctgg	agaagcatca	gatttttaag	actggggagg	3600
accaaagccc	acagaaggga	aggccagaga	cgtgcccag	gcgtcccagc	accaagtggc	3660
tgcttccagc	aggcctaagg	agctgaggct	ggggtgtgct	ggatgcagcg	gggcttccag	3720
gcggcagctc	cctctatggg	agaggttggg	ggaatggcct	cctaggggct	accagctttc	3780
tgacctcact	cctctcccca	caggcctcca	tccctggacc	agcttcgagc	tgaacgtctg	3840
cggaggggaag	cagctgagag	gtctcgggca	gaggccctgc	tggccccggg	ccaaggccgg	3900
gcactacagg	agggctcagc	ggaagaagac	gagacggatg	accggcggcg	gcggtacaac	3960
tcccaattca	acccccagct	ggcccggcgc	ccccgccagc	aggacctca	ccttactcac	4020
tgactcctga	gggggtacag	gagaggccgc	tgctgccagc	cgatcatata	aactatttat	4080
tcataaatat	tttccaaaat	gaaaataggt	ttacaaaaaa	atgtccctca	ctggggaggg	4140
gaggaggggg	cagccctcgc	ccccgggccc	ccagggtggg	gctgagagga	aaacctcccg	4200
gccccctccc	tgcttctctg	gagaggggga	tgccccgtgg	cttggggcct	ccctccagtc	4260
ttccagggca	gggcccctac	ctgggcaggg	ggatcagcat	gcgggggaag	ggggtgggta	4320
gagggagggg	ccggtgtcac	tggaggtccc	ggtcctccag	gtagcggtag	tcaaaggtga	4380
agccttctct	cttccgctgg	ccccacttct	cgtagtcaaa	gtagatgtag	gtgccctggc	4440
cgggggagaa	ggcggtcagt	gagtggaaga	ggaggtggtc	tgggatctgg	gccggacca	4500
cgacaaaagg	ggacaattct	tagggctgtg	gatgtgtcag	gcaccgggcc	agctgccttg	4560
cacgcacaca	ctctcatcca	tcctcacaa	gttcttcttg	ggtaggaaat	gttatcatgc	4620
cacttcagcg	aggaggaaac	ggagggggcc	gcagaggttc	caccgaagcc	agctgccaga	4680
acggggcccc	agccccaggt	gtgagtgcac	agccttcgtt	tcctcgaggg	ctgtggcttt	4740
tgagcacctc	tcacgtgagt	acaggatgca	cagcctagca	tttaatcttc	acaaagacct	4800

0950032 091201

cgaggcagtg	ggtactgtca	cccttgttct	agagaatgga	acagtctcag	agtctaaatc	4860
caagcactct	gcagggacat	tttattgggt	acggaagtgg	tgtgggaatt	tctgaatgac	4920
tggatgccct	gaaatgtact	aacttggagg	atgggttttg	gccaaaccag	gaaaggacag	4980
gaagtctgtg	gttaacatct	gaggacacaa	tgggagagga	cctaggttct	aaatgaatgt	5040
cttaagtgtc	tcaaagatgg	caacctggga	gaaccaggag	aggggactga	gttctctgag	5100
gacaaggacc	ttgtactact	tcatecccat	gaaggggctc	ggcatcaggg	aagtatttgg	5160
tggaaaaaaa	catcactgta	gaacacacca	actgaaagta	atltgaaaaa	aaaaatccat	5220
gacactgact	atgtagcagt	caccattaag	tacttacatg	ttattaactc	atttaatctt	5280
cataacaact	gcattaggtg	ggtgggtctt	cccccattht	tacagataag	ttaattgaga	5340
cacagaggtt	cgagtgaact	gcctagagtc	gcccagctgg	actgggctga	aaccagggtg	5400
ggttgggttc	agagtgtttg	caagcagcag	gaatttccca	gtattagaac	ttgagaagcc	5460
cattcaaaaa	aaatagtttc	ggcactgagc	ccctgcccctg	ctgagtgtctg	ggacctggag	5520
gtgaagtggg	ggccatcaag	gtccctcggc	agcagagccc	acagcctggt	gcagggacac	5580
atactgggaa	aatccacac	cccaagcgag	tgtgcccagc	actgcaaagg	ggaggcactg	5640
ggctgggttg	ctccaggaag	gtttctttga	ggaagggaca	tttgggctga	gacctacagg	5700
aggcctagga	gctggccaag	tggaggatga	gagggcggtg	ttccaggctg	agcagacagc	5760
cagagggagg	agtacttggg	caggctgagg	gactgcgcca	gctgaaaggt	ggaggcaagg	5820
gagcagaggg	cagcaggggg	tgcctggagc	ctgggggactc	taccccaacc	ctagcagcgg	5880
gaagagaggg	ggcggggccc	tcacctgctc	aaactcgtca	gtgatggtct	tgggctcctc	5940
gtgcctctgg	aaccacatca	tgtacttggg	gtggaatcgc	catgactgct	tcttttagggc	6000
cttggctcgc	agatactgtg	ccttagtgcc	ctgggggagg	aacagtggag	agggggatca	6060
ggggggcccc	aaactgggtg	gggagccagg	ggaatggggc	aggacatcag	ggctgaaccc	6120
cggccccccg	cacagaccac	agttgggctg	gacaatcctc	ttggagatgg	ggctgggggc	6180
acagaacata	ccaatgtctg	tcaggagaag	gaaaaatgaga	caggaggtga	aaattgtctt	6240
cagagaagct	ttgagaagga	agaaaaacta	atgtgtgatg	agagctgaga	gaggaggcaa	6300
tttagaaaat	ttcccaagtg	gggatgaggg	tggaggtcac	tcattgactca	ctgggggttg	6360
gagggggctg	gacagctccc	cagtgggtct	cagggaggcc	tgagaatgtg	ccgatgagca	6420
gagtggggct	ggcctagact	ggggctgctg	gagcagggct	ggggaggggc	cgcggttgag	6480
ccagtgggca	actggaagcg	gggctgaggt	gtgcctcagt	ggaccagcct	cgctgtcaac	6540
ccaagcagtt	ctaacatctc	tgggctggaa	ggcggggacg	gggacaggtg	gatttggggc	6600
agggggccag	gagtgggaat	agggaggggg	tgcggtccca	gtggccgcag	tggggacccc	6660
acctcacccc	tccagcccga	ggggggacgg	cgccggtggc	ggcgaagccg	ggggggccga	6720
ggctgccccg	ggggccctgc	tgtacctcca	gatagtagaa	gatgaagaag	agtgtctcgg	6780
tcgacaggcg	ctggtagaat	tcacagtggt	ccgagtgtgg	gggtggcatc	tgggtgggtg	6840
agggggggcgt	cggacagggg	ttccggggga	ggtactgcct	gtgagagcaa	caggaaggtc	6900
agtgccagct	gcctactagt	cctgtcgtga	tcaaaaaggg	gctcagacat	gcacccctgc	6960
ggggggagggt	ggtacagaaa	gacccagggc	ggtgctgacc	ttcagtggag	agcccaagtc	7020
aggggccttg	tgctctaccc	acagcctcac	aggttcagcc	actgcctcct	ccgtaagact	7080
caagtcccag	accatccccc	ttccctgtgg	cccctcaccc	aatacgtca	gagtcagagg	7140
ggtgaggcat	gtggtgccag	gcggcctctt	ccatggcctg	ctgatagagc	tgctccttgg	7200
tgaggggcac	agggcccagt	ggacagacac	ccagcgacag	cggtatgttc	acctctgaca	7260
gctgcagggg	cggctgggct	gaggccggag	gtgctgatgt	actgctcagg	atgatgtctg	7320
tggggagggt	gggggtccgg	ccccctcagt	ggtgaggatg	ggtcaggggc	agccccctct	7380
ctttggcccc	ctgcttcccc	accatccctg	gtccctcacc	tcgctcgggt	aggtgcagcg	7440
ttggcacagg	gtcctcaatg	ccagagctga	tggctgcccc	ttccgccatg	gacttcaagg	7500
agctcagagg	ctcagggggc	tggggaggaa	acaagaggcc	tggcctgagc	acttgggctg	7560
caggtagcaag	tgcagcttga	cacaggcccc	agatgctctc	acctgccctg	tttggggggc	7620
gtggagggcc	aacgaccac	tccccacaat	ctacccatga	caggtaaaaag	catcaaaactg	7680
tagggaaaca	atcggagacc	acgacgcatt	catcagcaga	ggaacgtctc	gtgagtggga	7740
ctctgcagca	tggataacta	cgccgagatt	ttcaaaaatac	aagttcgtga	catactacag	7800
aagtaaagcg	caacctgcag	aatatgtaca	gtgcgctacc	atltttgtca	aaggatgtgc	7860
caatagtaca	cgctccttca	ctagggacac	ctacacgctg	ggagagctcc	cgcctgtctt	7920
gaaggaggca	ggaggtctac	atgctcagct	gtctgcctgt	gactggcatg	gggtgactgg	7980
aatcgggggt	ggcccagccc	ggctagggct	cagtctcctt	gctggaaaca	ggtaggttgg	8040
gtctccagcc	cggcagccac	agcctcgttt	cctattacaa	aggttacagc	aggcttctgt	8100
tccccaaagt	cagggtgggt	tcctcccatc	tcctccagcc	acgtgcagct	gtcccaaac	8160
ccagccctgt	gctggactct	ccacaacgag	tcagtcgcca	aggcttatcc	attctgtctc	8220
gctatatcgc	ccaggcaggt	ctcaaaactcc	tgggctcaag	ctatcctccc	gcctctgect	8280
ccctaagagc	tgggattaca	ggtgtgagcc	accacgccc	gctatccgtc	ctgcttctaa	8340
acccactgg	atggctccct	tcctgtcgt	gccaccatgt	cccacacagc	ccaggcctgt	8400
cctctcctgc	ccagaccacc	ctccctctat	cctgtcctca	ccagccccag	gggacctttc	8460

0050032 - 091201

caatgaagtc	atgtttgttcc	ttctctactc	caaaccttgc	catgggttccc	gaccacccac	8520
cccagcgatt	cattttttgtt	gttgggtggtg	ttaaaagata	tggaccacctt	ctgaaaaatct	8580
caaagctgct	gtttccctttt	ttccagaaaa	atgcacgcac	tataaatatc	ctgtccacct	8640
actttctaaaa	tttgggcccgg	gcacgggtggc	tcacacctgt	aatcccagca	ctttgggagg	8700
tcgaggtggg	tggatcacct	gaggttcgga	gttcaagacc	tgcttgacca	acatggcaaa	8760
accccatctc	tattaaaaat	ataaaaatta	gcctggcgtg	gtggcaggcg	cctgtaatcc	8820
cagctactca	gtaggctgcg	gcaggagaat	cgcttgaacc	caggaggcgg	atgttgcatt	8880
cagctgagat	tgccaccactg	cactccagcc	tgggtgacag	agcaagactc	tgtctcaaaa	8940
aagaaaaaaa	aaaaaaatta	atgctttctgt	tgggccagaa	actgttccaa	gagctttatg	9000
aggatgattt	agtcttccaa	ataaccctac	atagtaggta	taatcgtgac	tattgccgtt	9060
tcccagatga	aggcacagaa	aggacaatgc	caagacttgg	acctggacag	cctggggcgg	9120
cacactgcct	ctgggacagc	ctgggcgcgc	acactgcctc	ctggacagcc	tgggcataca	9180
cactgggtccc	cccatggaag	ctgcgttaca	gtatactggc	tcacaagcca	agccccagct	9240
cctgaccctc	gatgatcagg	acccacacgt	cctatcctgc	tacaccact	atctcagccc	9300
tgacagctgg	ggcactgtct	cctgcagagt	ggacacctct	ctcctctctg	ctgcacccctg	9360
cccagcttcc	taagcacaca	ggcagatgca	tgctcctcct	aaagcacctc	ctgaagccct	9420
tcctgcagct	gttagccccc	ctgcctggtc	caggtctcag	cttaaaccatc	acccctctc	9480
agaccttcc	gggcctgtct	cccagggtcag	gtcagatgcc	cctcgggtggg	cccaccgcaa	9540
ccttccctgc	agctgcccc	gcagggaagc	ttcctaaagg	gtggaaccag	gctgcattca	9600
cccaaccagt	ctttctactt	gtgcagaaa	tacaccagtc	tatgccttgt	gaggacaaac	9660
ggggacagaa	actgagggcc	tgcggggggg	atgaagatgg	agaccagag	agagcaagca	9720
acaagtgc	ccaagagaaa	ggaaaagaga	cccagagaaa	cagagctttg	gagggaacaa	9780
gagaggaggt	atgagagccc	ccagagatca	aggtcacggg	gaggggtggt	cagaaagacc	9840
tggagaaaga	gcaagtgtga	gaaggggaca	gaaagccaga	gaaagagatc	cagaaagagg	9900
gtgggggag	ggggtgcagc	tagagacctg	gaggaaagaa	acaacagagt	caggacacag	9960
agggtcgggg	gatgtccgag	gagcccacct	tgatttctgg	ggcgggtgctg	aactgtggag	10020
gcccattgag	cagggcacccg	gctgccttgg	catcactgaa	gctggggcgtt	ggggagctgg	10080
gaggattcac	aggcagtggc	accaggaggc	tgggtccccc	tgagttgttc	cctgagcctg	10140
ggggcacgcc	cccagcccc	gttggggctg	ccgcactggg	ttccttccctg	gagagagagc	10200
atggaagagg	gggttgagag	gagggctcc	gagggctggga	tgggcagaga	ggcctggctg	10260
gagagagggg	agactgcaca	gatcagatgg	gatctgagag	gggcagggtga	gggcagacag	10320
atgggagaaa	gaagtgggtt	tctggggcaa	caaaggcaga	gccccaatctt	tgggaatggtt	10380
tctcatcagc	agagcagagc	tgtgggggtg	ggggtgagga	ttctcgggtg	ctccaccagg	10440
ccacaggctg	atcaaaacca	cttgccctgg	gcaggtgttc	acagggccca	ctcccccttg	10500
ggcaggccag	ctggagctgg	ggtgaggggg	caggaagcag	gcctttcctt	tgtgcacact	10560
gatctttctt	agggcattct	tccgggaaaca	ggcagaccca	gtggaatggt	ctgagctaag	10620
atttgaagga	gtggctgcag	aggaataagg	acttcgggac	aattcacttt	gaaaagtga	10680
acagtgcacc	tccgggtggca	gtcaattggc	ctcaggcagg	taacagaaat	ggggaggaaa	10740
gggtatgggg	ctcttgagaa	aacttccact	tagatgagaa	cgtatttttag	aatgttctga	10800
agggcacaagc	agggaggctg	atgtagtttc	cttgctggaa	agaagtgggg	gtgtaacacc	10860
cgagggagat	ggaggatagc	gcttggccat	tcccagcagc	aagggcgggg	ggttcagaac	10920
ccaccgatgc	gggggtgagg	cgcttgcgcc	tctctgtttc	aaaaggctgc	catcccaacc	10980
ctgccgatgg	ccgagacact	cacgaggtgc	tgggaggtgg	gttgtggggg	ccggaagggg	11040
ggcccaaggc	ctggctgctg	gcattgttgc	ccccactgct	gctcaaagcc	acctctgccc	11100
ggctgtctgc	cacaactgag	ctgtaacctg	ggaacaaaga	gtaaatggaa	agggctgctg	11160
cctgtgcgcc	agcccccccc	acgcccccca	ccccgctgcc	tcctcactca	ctgggtggcgc	11220
cattctgctt	gccagccctt	ccaccggcac	tgtgttact	actgctgctg	ctccctccac	11280
ctccgctgcc	gccgcctccg	cctccgctag	gctggacgct	ggggggccgg	ggctgggtcg	11340
tgctgggccc	actgggagct	ggtggggcca	cagcctgggc	ataggagagca	ggggtgcccg	11400
agttgtggct	gggagctgga	ctggcccttg	ggcccagggc	acttgggggt	gctgcggggg	11460
cggggacccc	attgttgcca	ggagtgggtg	tcaaggcaga	ggcagcaggc	ggggggccgg	11520
aggggtaggt	gggcggcaca	gctggggact	gaggggtgctg	gttgctgtgg	acaggcttgg	11580
agccgttttt	ggctggagac	tgcgggtggg	agagagcaga	gggtcaggac	ccagtggggc	11640
agctggctct	cctcaccacc	cccacctcag	gctccatctt	tgtcccagca	gcctcctctc	11700
tggcctcgct	gccccacctt	gctcctgccc	tcttggggac	ctgggtgacc	ttactcacc	11760
tcattggctt	aatcaccttc	atgcttaaaa	cactcacact	gatttccagc	ctgcccagct	11820
tcccaagtcc	tgcttgagca	ccgccccatg	gacaccccca	cagggatctg	acacacaact	11880
taggttgtca	gccagagaag	atccatctgt	tggaaagccag	aggactagtg	ggaaacactt	11940
aagtgttctc	aatatgagat	tagctggagc	cgcctaattgt	ccaagagtag	aaggaaaaac	12000
agctggaaat	tggatagtaa	ttctgaatgt	cacctgaagg	gtcacagaag	ctactcacag	12060
ggctggaaat	taccagcact	ccagaaagtg	gtggggaggt	aaatgtgctc	atggtatccc	12120

0950032 091201

taccgcaggc	aatctgtgga	cagcactccg	gctgctgagc	ctaaccacct	cctgggcttc	12180
tttccagcca	ccccacaggc	accttgcgct	taccaagcgc	ccaacaggac	tgactacca	12240
cttctctcct	gggcatcgct	gcttggcagt	gggggcctgg	gaagggtggca	gagcccagcc	12300
tggccccctg	agtacctgcc	tcagtgtctc	tcctcatcac	ctcctggccc	tggtgcccgc	12360
cctcactact	acctgcgggt	ccccttagtc	tcacaccag	cctcctcaat	gcccactcag	12420
ggtgtcccct	tggaaccatc	catcccgtta	gcccacagag	gggcctcagg	cccatgctgc	12480
tcctgcctaa	cattgttctg	tagcagcggt	tccgaaagcg	tgctcctgtc	ctgggagatg	12540
ttaaaggagt	tgaagaagca	ctgcccgcga	ccgtctcctc	tcagaaattt	gcagtgtgta	12600
ttatcagcac	agcaaaggcc	ccatcgcttc	ctaggcttat	tggactctgg	aggccactca	12660
ggccacaaa	gcctgagccc	ctcagcctga	cagtcccagt	ccctgtgtct	acagttgggc	12720
ccctggccct	gcagacctgg	ccagactcat	ctctcctcac	ttccaaactt	tctgtcaca	12780
cttggccatg	ttactggctg	ccacctctcc	ctgccagcca	aactcacctg	actgtgaagc	12840
ccagggcact	ccacagcagc	atctcctgac	tgccctggcca	ggccaagggt	gacctgtgtg	12900
ctacccctt	gaccacagca	ccagtcacct	gtccacttgc	cctgcccacc	tgccctcagg	12960
gcagcactga	tttctgagcc	acctgtgtcc	accagcccag	cacagtggcc	ggcgctcagg	13020
cctcaagatg	cctttgggaa	gcaacagagg	agtgaatggc	gtgcccaccc	ggtccaggct	13080
cacaccacc	tggtgactt	cactgtctgt	ggaacgtccc	ctcttcttat	catcttcaga	13140
gttttctga	ggtaggggag	gcagaataga	aacctgtgtg	acctctgggg	ctctgatgga	13200
gaaccgcaa	tctctgaatg	ccccggggac	ctgggcccga	ttgactgcca	ttgcccgc	13260
agagctggct	aaatggctgt	cccttaactg	cctggagaaa	ccatctcaat	tcaggctctc	13320
cagtcttctt	gttttctggg	agccagcact	gacccaccag	cctcttaagg	atctgggaac	13380
ctgtcttcca	cagggaagcc	aaccttggga	tccttgccca	aggtggccag	ctaccagcc	13440
tcctcaggca	gcccaggcac	cggccctctc	cacttcccag	atccaggacc	taaactggcg	13500
cgggatgcac	cctattgtct	tttatgtcct	ttagggacc	agatatagga	ccttagcgtg	13560
tgctccaaga	gcctagaccc	tggataccta	gatctgtgtt	tcctcaatta	cgctcccata	13620
gccacttttg	agtgaccag	atttgtctcc	tcgagtcctg	ccctgctgga	aacacaaggt	13680
actagtgtcc	cgtggggcct	caccgtggta	cagttggctg	ggctgggcgg	gatgggagag	13740
ctggaggctg	ttgagggtgg	cgtgtctgtc	gactgggtga	agatctcatc	ctccatgtgg	13800
ctgtggctgg	gaggggaggt	ggcgaccagc	gacctgtgtg	tgggggcaga	agaaggccat	13860
gcttagctgg	ctcacacagc	ccattctggg	ccctcacttc	ctgtgccacg	atcagcccca	13920
gggcctcacg	aatgtcctcg	agggtccaggt	catcgtagag	aaactcgctc	tcctcgaagt	13980
cggggctctg	ggatgagtca	acatagtact	caacgtcgtc	cttgatcttg	cggatggcgt	14040
caacgaggat	ggagtcattg	tcagcatgc	gcaggatgg	ctctagcatg	cgcacgtgg	14100
agcgggtgct	ctcgatgtgc	cgcttcaagc	cctcaatccg	gtcctgcttc	tgctggcgag	14160
cccaggggcca	ggctcagggg	ctgcagagca	cctgcttggt	ccctcctgcc	cccacagaac	14220
ctgtcctcag	tccttgaccc	ctgtggagac	ccaaagcctc	cacgccatcc	ccttcgggg	14280
ggggcagtat	ggggtccacc	cacctcttga	gacctgtggg	gaccaatctt	agccttgaca	14340
tcttgggatc	ccactctctc	ctcctctccc	cacaccttcc	tggctccagg	agtccttgga	14400
aacctctaaa	agaccagag	gtccttgtgc	catcccacga	cttggcctcc	atctgcacct	14460
cacctgacag	cccagatttc	tcaactgagc	ccgcccacca	ctgtgactgc	ctctggcata	14520
cagataccct	ccgacctgct	ccagcagtaa	caatgataac	ccccatttgt	gaggagcttg	14580
ctgtttagaa	ttgtgatata	tgtcatcact	aggcccccaa	ccctacccat	ttatccctga	14640
gagagcccag	attcctaagc	ctcgtctcct	ccctccctcc	aaggccctt	taggatttaa	14700
catcttagcc	ttggttccaa	atctctgtct	tgttcaagga	cccatcatct	ccccgaaagc	14760
ccctgggttc	caaacccttc	agagtctgac	acccaacctt	gtcatcttcc	acttcttgac	14820
cctctccac	ccacagcttc	cctgaggacc	cggctctccc	ctccctgtct	ttctggttcc	14880
agcaagtctg	tacagtttgt	atccctttga	actcatacc	cacaatcccg	gatttttagaa	14940
cctgggaccc	caacatccag	ctttgtccca	gactcctgtc	ttccttcagg	cctggttctc	15000
tgcttctctc	atgttctgct	ttgtctctac	ccactgtgct	ctccctagga	ccagggccct	15060
ctgggtgcca	ggaggcctct	tgccatgggt	gtccttcagg	tctcactttt	actctgtggc	15120
ccaagctcaa	cctgcactca	ccttccccca	agtcgctcct	cttcacaaag	gccccacgg	15180
ctaccagac	accagggga	gcctgagatt	ctgtctgacc	tccttcctgc	cccacgcgtg	15240
cagctgctaa	gccttcccaa	tcctgtctct	caaatcccta	atcccggtg	ttggccctgt	15300
ccgcctgagg	aatccaggcc	ccaactccca	ggagcataaa	tgactggcct	cctgctggcc	15360
agcccatctc	catgccatcc	cccatcccaa	agggtgcggg	tctccctcac	tcacatcttc	15420
gtcgccttcc	ttcttgcgtg	tctgcactga	cagtgaactc	acttcactct	caaactggct	15480
cacctgcatg	ttgagcgtgt	cgatgggtatt	ctaggggagg	gagaggaaga	ggaagcccat	15540
cagctaggg	tccgcctaca	cccagggtct	aggatcctca	gagttcacct	cctcttctct	15600
accccaactc	accgtgagcc	actggccaac	ctcttctctc	tccttctggg	caggatctac	15660
cttctggggc	aggccagggc	cctctttgct	gtaagctttg	gttttgggtc	ctcgttccac	15720
aactttgaac	cgttccattt	gctgtagaga	gtgcagttgg	cagggggggt	ctcaaagggt	15780

09550002 - 091204

ggaaaggagc	tgactaaggg	ccagcagaca	ctccgacctg	agcctcgtga	ccctactttc	15840
tgagctctga	gtccgctgcc	tcttcacttc	ccttaggtgc	agaaacctta	cttctcttga	15900
ggacctctgg	ggtctggccg	ctctgcctcc	gccccctggg	atctcaagaa	tctggtgacc	15960
ttccccacctc	tctgggactc	aggctctggg	ctcctaccgt	ctcaatgagc	ttgcggttgt	16020
ctataagctg	cctcttgtcc	ttgatctcgt	tggacgctac	ccatgtcttg	atttgggtccc	16080
tcagccgctg	cagatgggaa	aagcaagaaa	gtcagacctc	aggaccaggg	aactggggcc	16140
cacagctcct	tctccctggg	accagcagc	ccactctccc	agttccctct	accctcagga	16200
caaaggcgctc	caggccccc	gccccctcac	ttgtagcttc	ttaatctcct	tcttttaggtc	16260
agcctcatatc	ttttctttct	ggttcgcgtt	ggctgcattg	tggagctgag	ggatggagag	16320
aattgagaag	tcagtgtggg	aggggatgtc	ccagtaccca	ctccagtgat	tcttccttat	16380
gctagggact	cgaggacccc	ccccaacccc	tacccccaat	ccatcttaga	gctgattctc	16440
ttaggtcctc	agcatctgca	tatgtagccc	ctcccgctgg	tcaacaccca	gaggtcctga	16500
gccgccttcc	tgtgccctcc	tctctgaaga	cccagattat	taggggtctca	gccccgtgat	16560
cttctgccaa	atatcttcaa	actgctccac	gccctcggac	accttcttga	ggcagcgatc	16620
aatctcacct	ggccagggag	gaacaaggct	gtgagaatcc	tgcccaggtg	gcaggtatct	16680
aaagagcagt	cctcagaaga	gggagcatgt	ggctacaggt	gcagcaggaa	gtcagcttag	16740
taccttgagg	tttgcgcttg	tccgccatct	tccctgccct	acagacgcac	tctcttcata	16800
ctctcttgga	gacggacgct	gctaggagag	attggagagg	aattaacacg	tattccctgg	16860
ctggtaaaaa	cccagagaca	tggacctagt	cagcatagtg	aggtaggtgg	gactggtaaa	16920
gagaagaagc	atttgcctatc	tgacaagaga	ccagccccag	ttctcctgat	gctcgcttga	16980
ctgcccagca	tagtgtctgg	ccaacagggg	acccataag	tttgttgaaa	caagaaaagt	17040
tacatacttt	tttgtgtgcc	tctgactcag	gaagtggaaa	attcctagag	catggagtac	17100
cttctcccca	gaatacactc	aaaaaggttt	ttcagagcag	gacagtcatg	ctgcacacag	17160
ctgatgactg	ggatggaggc	attagccctg	gaaatcacac	ttcctactca	gaggggctgg	17220
gcagaggtgg	ctaggagagg	tcatccctca	gacaagtcag	gagacaaatg	aaactggcag	17280
ctcacagaga	agggcggtgtg	tgtgtgtgtg	tgtgtgtgtg	tgtgtgtgtg	tgtaagctgt	17340
aggtaggaga	agaaagattg	gggggtggggg	aaaacgcacg	cgagcagaga	tgccgaaagc	17400
tgtgaagagc	tgaacccgct	catgcagaca	gggctgaatg	ccaagtagaa	gggactcaaa	17460
ccaccaagac	atttattcca	gagcaggatc	cttaaaccac	aaggaaataa	cactcctaac	17520
ccaaagaagc	taataccaag	aaggcttaga	gatttggggg	cagaaggcag	tacccaagag	17580
agacctggga	gaagacagaa	atcttactaa	gataagaggg	tgcaaaggta	ccgcagctgt	17640
gagggagccg	atctgcactc	atggaggaat	cccatagcaa	gtggattggg	aatttagagt	17700
cagggagaca	tagaccatca	gggcaggaac	ccaaaacttc	aagagaggag	cgtctttatt	17760
ttaaaggaag	ttacctggaa	cccagagaag	actgaggtca	aaaggaggtt	ccaaggagct	17820
ttagtccaag	ggaagacata	ccttagggcc	tgacagcgag	accaggggag	ccctgggaag	17880
agaggcttat	gcctcagaag	aagacttctg	agataccagc	ggagattgcc	ctcttccctc	17940
ccagggaggg	ggcctacaat	gaaaagcaca	gttccctggg	atccacgggc	cgctcccact	18000
ctacgtgtgc	agggcagggg	accctggagt	ggtaacttac	tgtaaagaca	gaaacagccc	18060
catactgagg	aacaagagcc	tcaatacaga	gggaagtcac	accaaaagag	tctcaccaca	18120
caaagaaggg	aacatctggc	aaacagtgtc	atccaacaga	actttgcaat	gctggaaaca	18180
ctctatttgc	gcatatctgt	tggccactga	acatctgaaa	tgtggcaagt	gtaatggagg	18240
aactgaattt	ttcattttta	actagttact	aatcaccaca	tgtgactagc	agcaaccata	18300
tgggacggat	atgcttttaga	acaagaagcc	cataaaggac	agggctggta	ccttaccccc	18360
agggagaatt	ttcccaacac	cgcagggacc	cattctgggt	gataataggt	aggggtgcta	18420
ccttacactt	gagggaaatt	aaatctcctc	agtaaaaggc	ccaacctaaa	gaaagccgca	18480
gcagcccccg	cccaggtcag	ctatcacgcc	ctacctgggg	aatctctaag	aaggcaaagc	18540
aaccaacaaa	aggacccagg	agaagggtgc	acagtgggga	ttcaggctga	ggaggggaaa	18600
gcccctttga	cccagggagc	tcacacaagg	caagggcctg	gacaccagag	ctcaggtgtg	18660
cagggatcct	caccaaagtc	caacacccca	acacagaaaa	gcctcttact	gcataggggg	18720
aacaagaatg	tgaacgaga	gtttacactc	cctctttcca	tcccaagaac	ccaacagagg	18780
gtcatgggca	ggtgctccag	cccagagaga	gaagaggtct	catggtctac	accctaaac	18840
aaggcaatca	acaccttagg	caggtgacgc	cctccctgtg	tctccacacg	gaaaggactg	18900
gtatcctagt	gcagaggaag	aatacccaca	gagaggagac	cacactgtgg	cagcaagaga	18960
aggaagtcc	ggaggggtca	caagccagaa	ggaggggaac	aagagcgcta	accaggggag	19020
gtgatgtttc	agacagaaca	gtgtgacatc	gaagtcggct	acagctgaga	cccagtgagg	19080
aggcagctcc	tccacagaga	aggggcaagt	gccagaggcc	caggggtactt	gtcccctaga	19140
gaggtgggag	ccttagccac	agtagagaca	acaccttccc	cgctaagaaa	atccttatat	19200
catgagggta	tctgtacctc	tggccccccc	agcaaaggac	cagagagaag	ggaagctgga	19260
gcctgagtct	cgaagcagag	acgccgccag	agaagaaaga	gccccatttg	ctgtagtcag	19320
gggggcatcc	accaagatcc	tccaaggaag	gtgggtgatcg	caggtccact	ctcaggcggtg	19380
aagaacctgt	gctccagcag	caaaggctct	ccaagagcac	tgaggaatct	gggaacctcg	19440